

FIG. 1

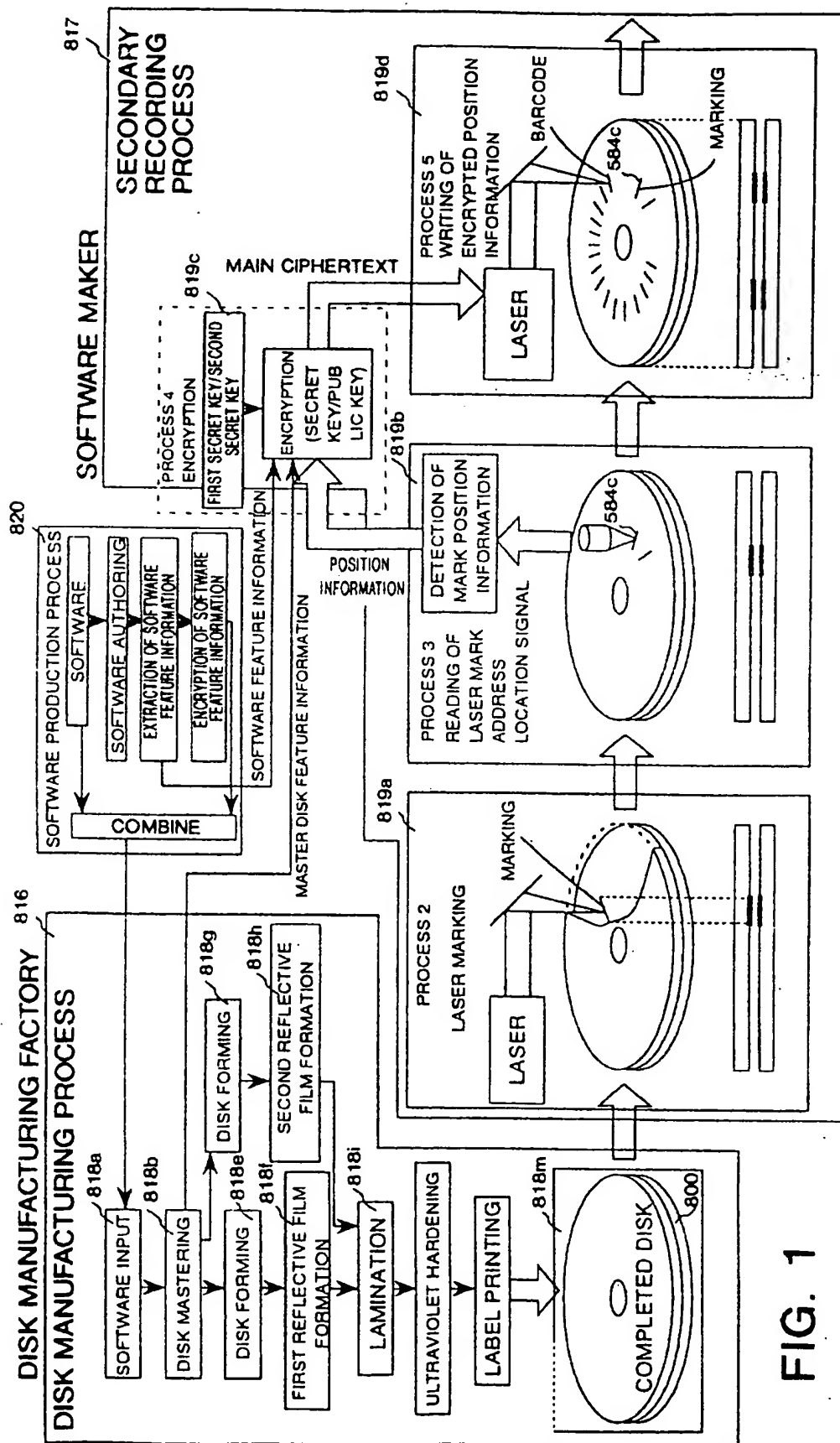


FIG. 1

FOOT" 5364FOOT

FIG. 2B

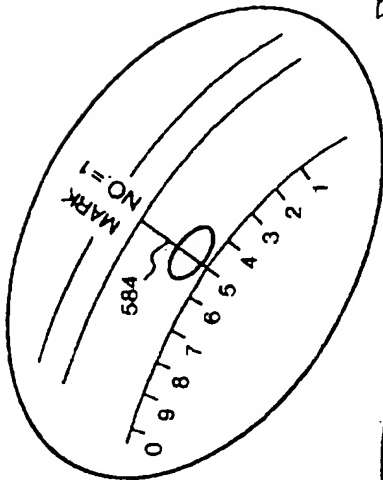


FIG. 2C

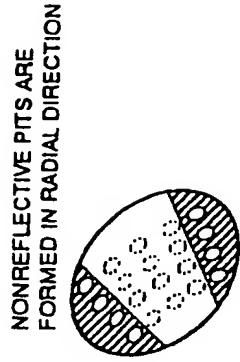


FIG. 2A

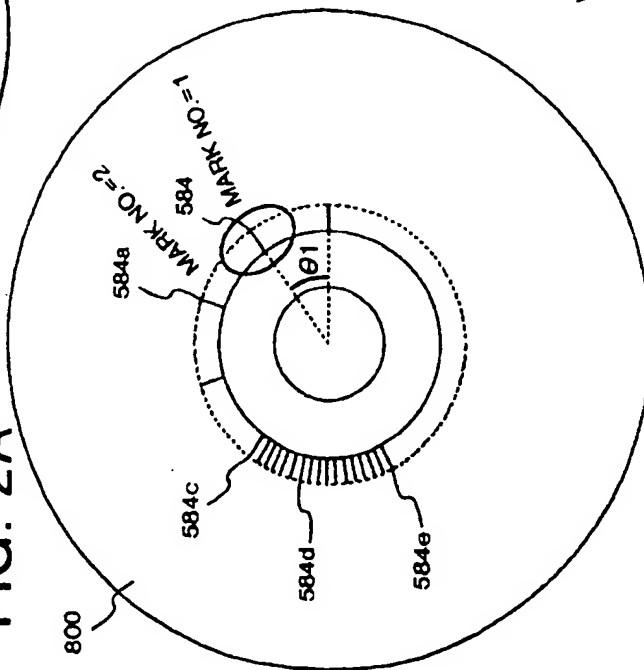


FIG. 2D

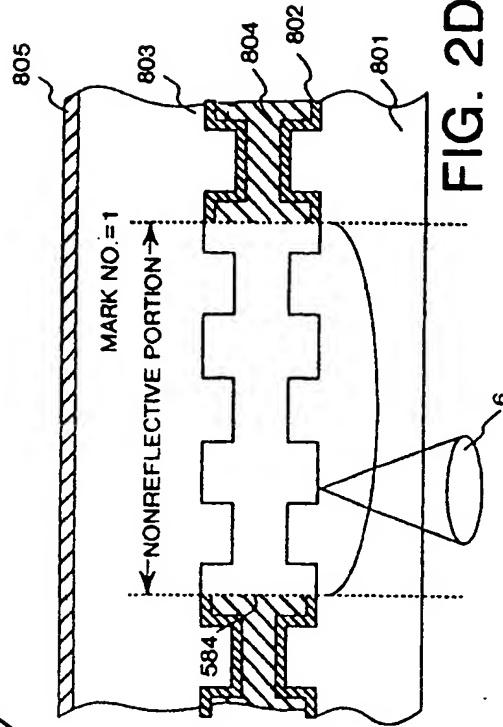
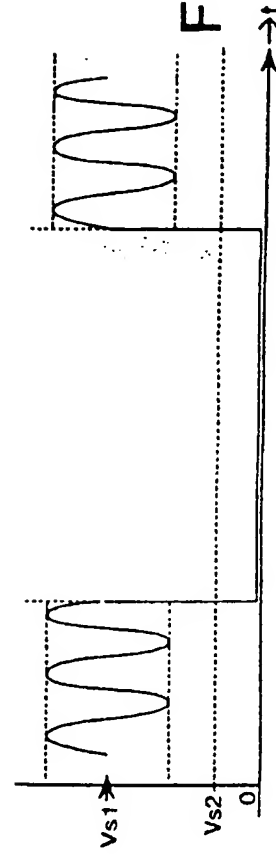


FIG. 2E



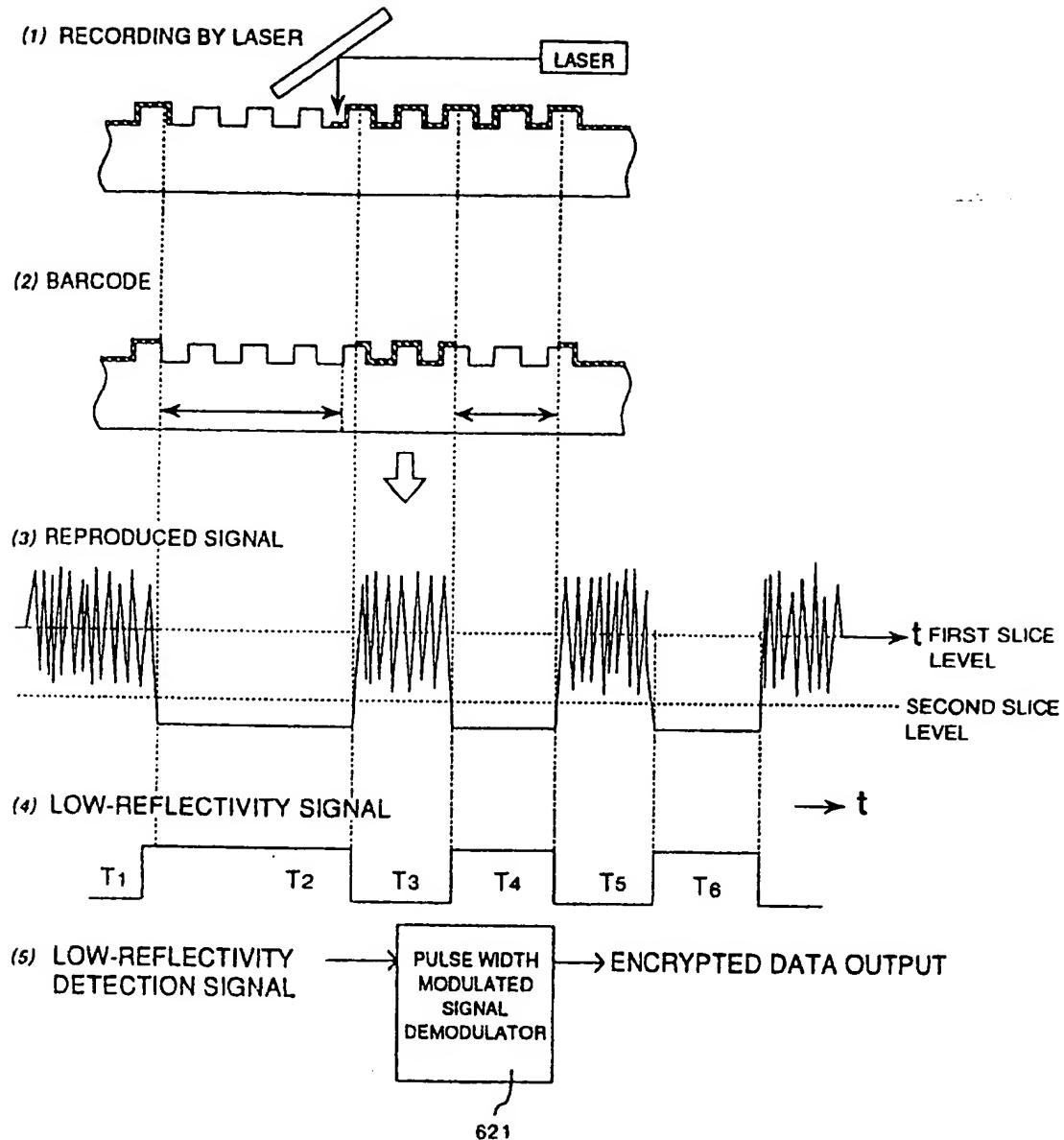


FIG. 3

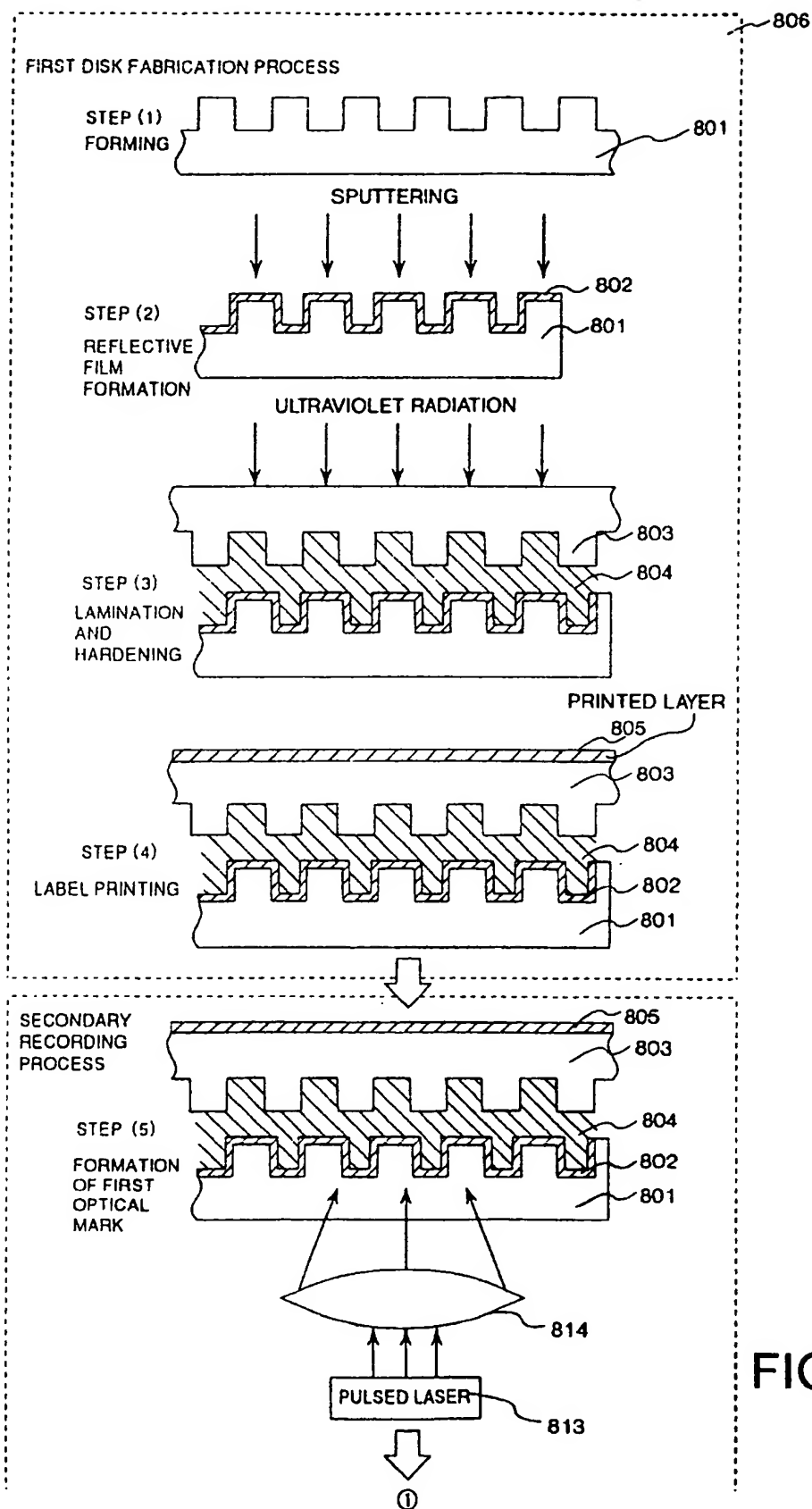
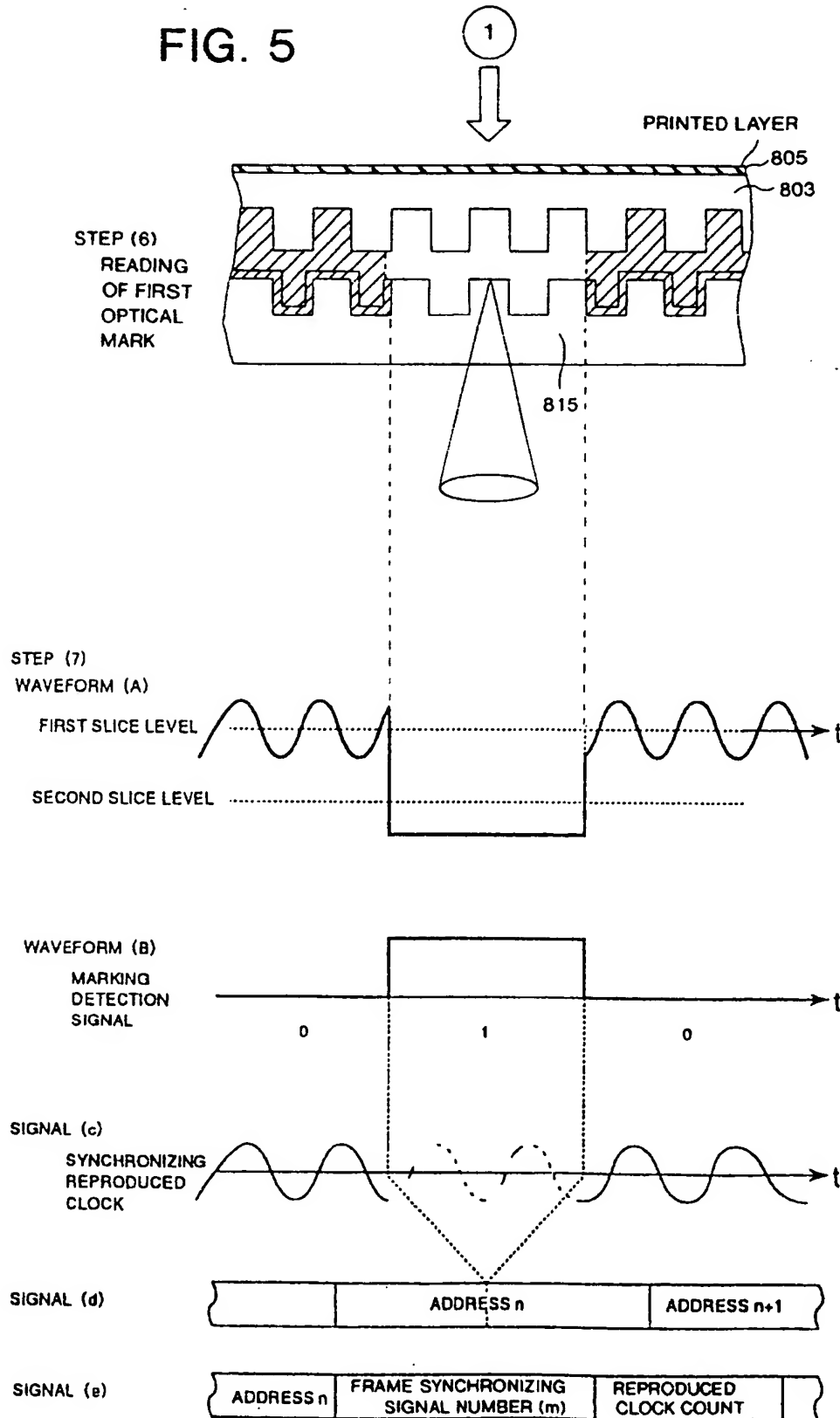


FIG. 4

FIG. 5



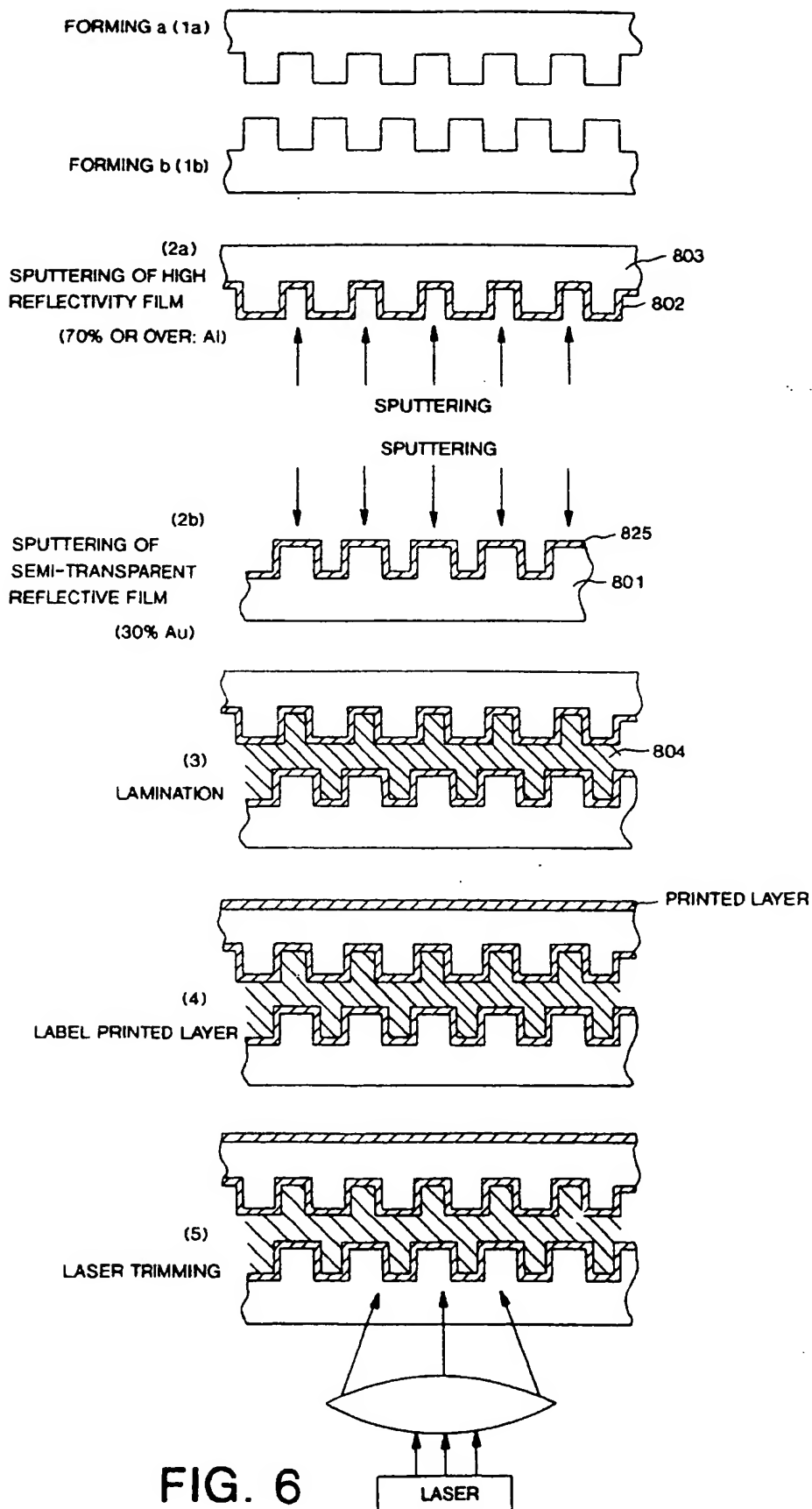


FIG. 6

FIG. 6

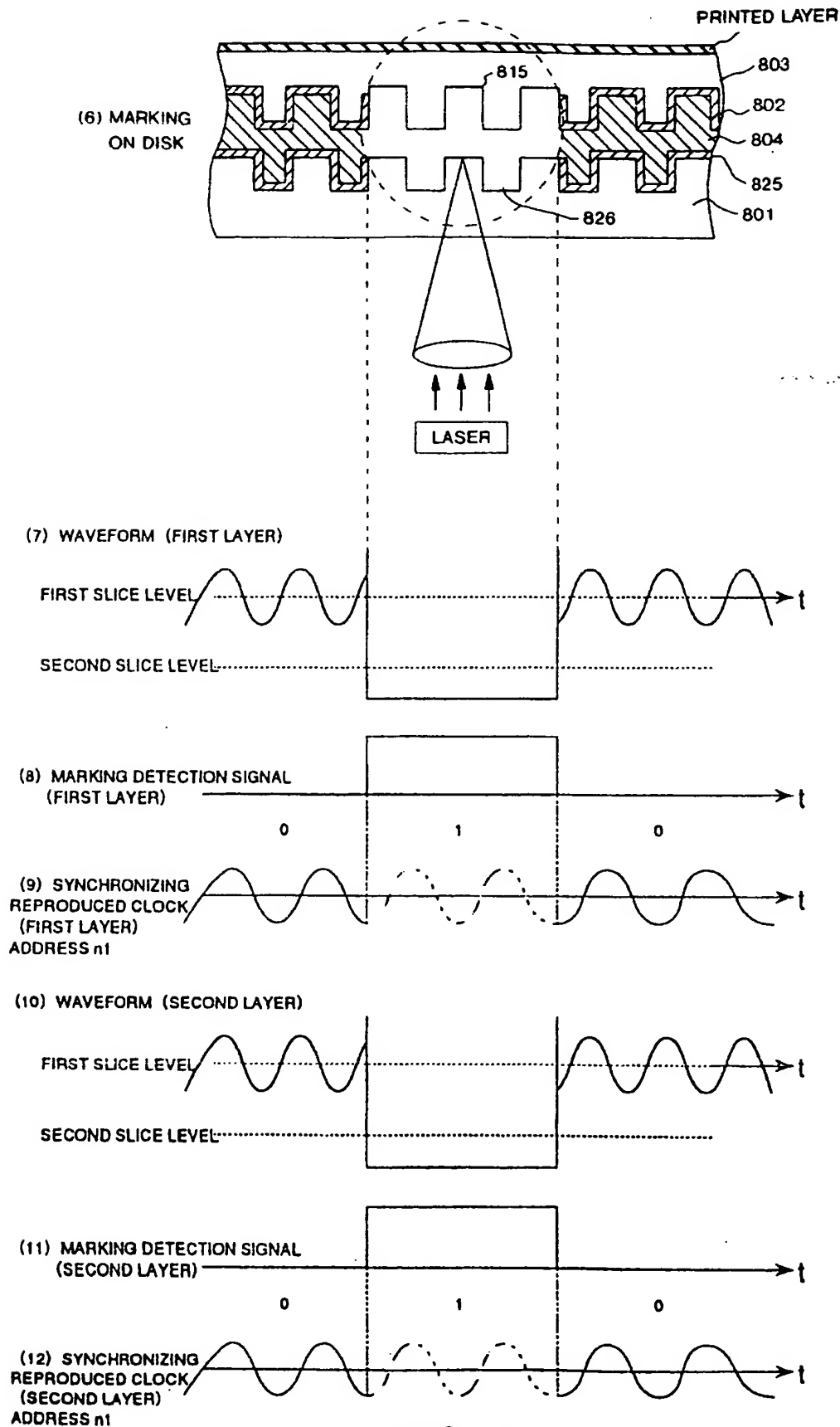


FIG. 7

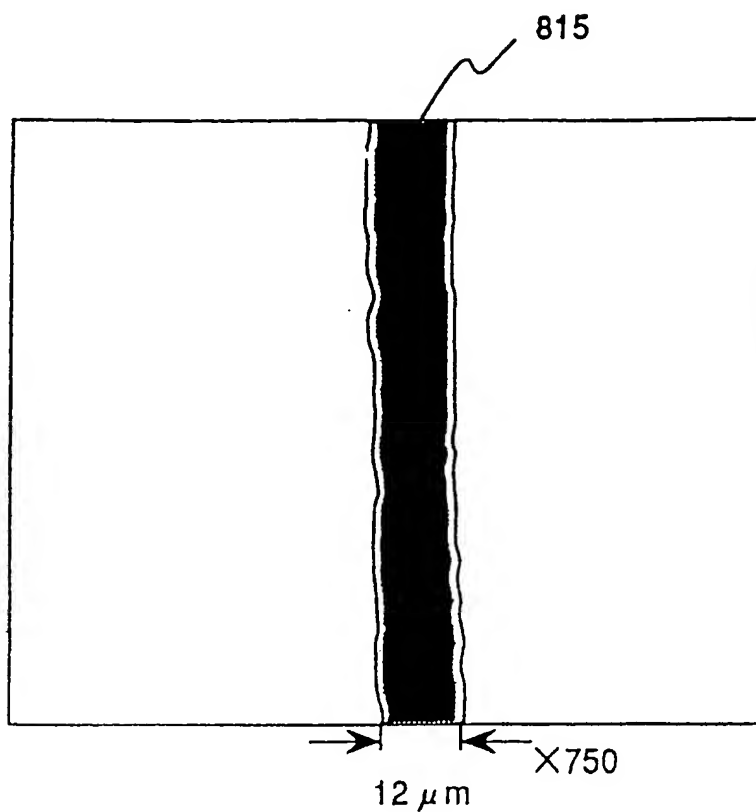


FIG. 8A

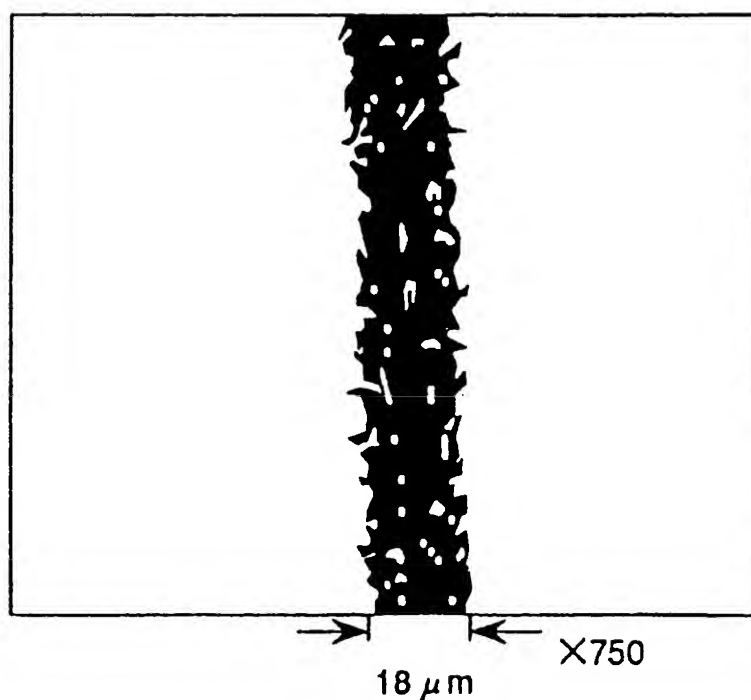
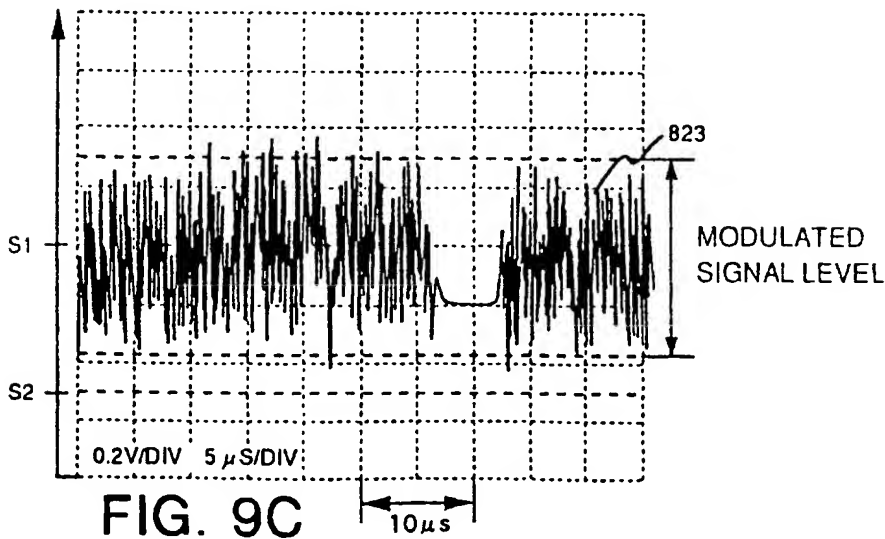
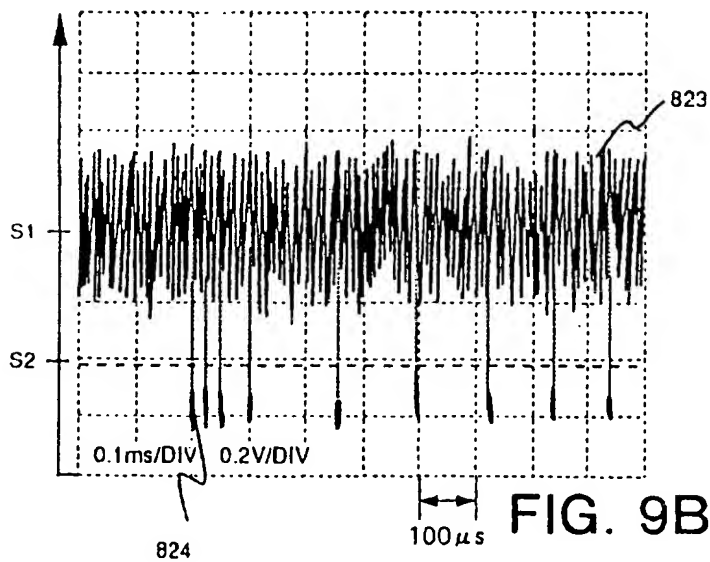
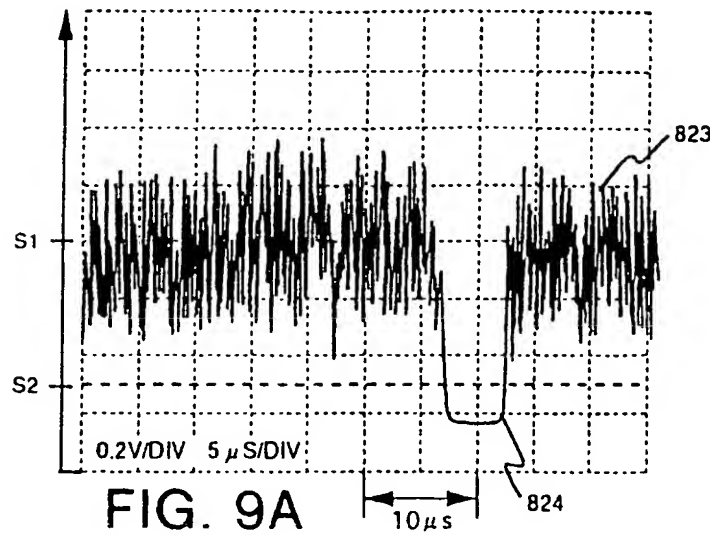


FIG. 8B

FIG. 8A





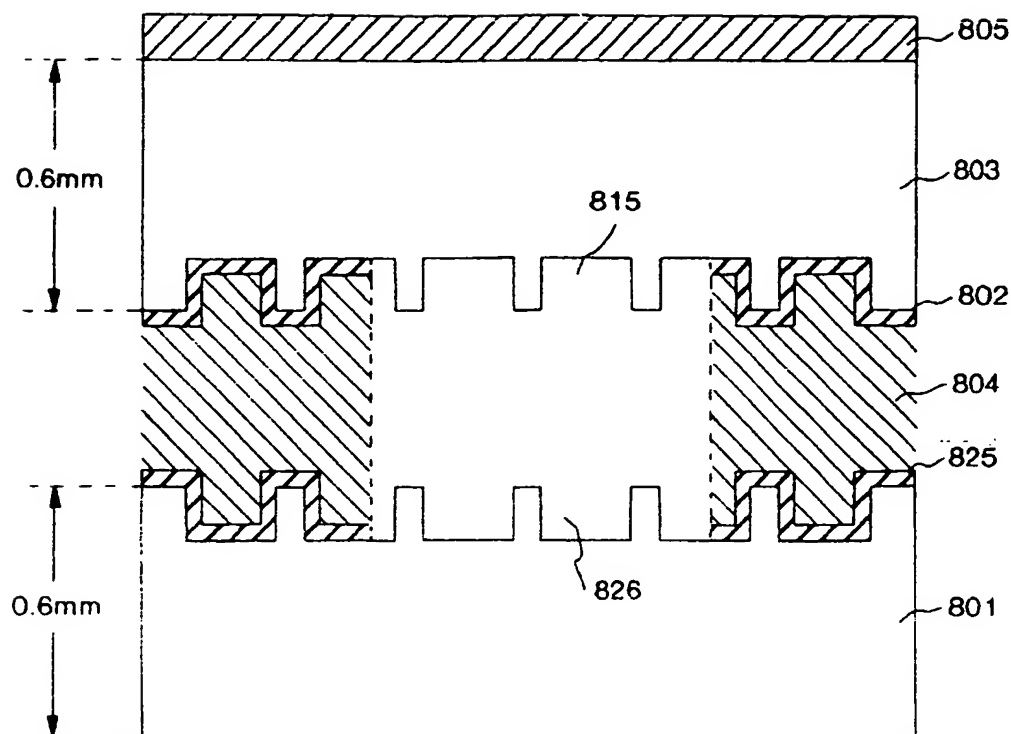


FIG. 10A

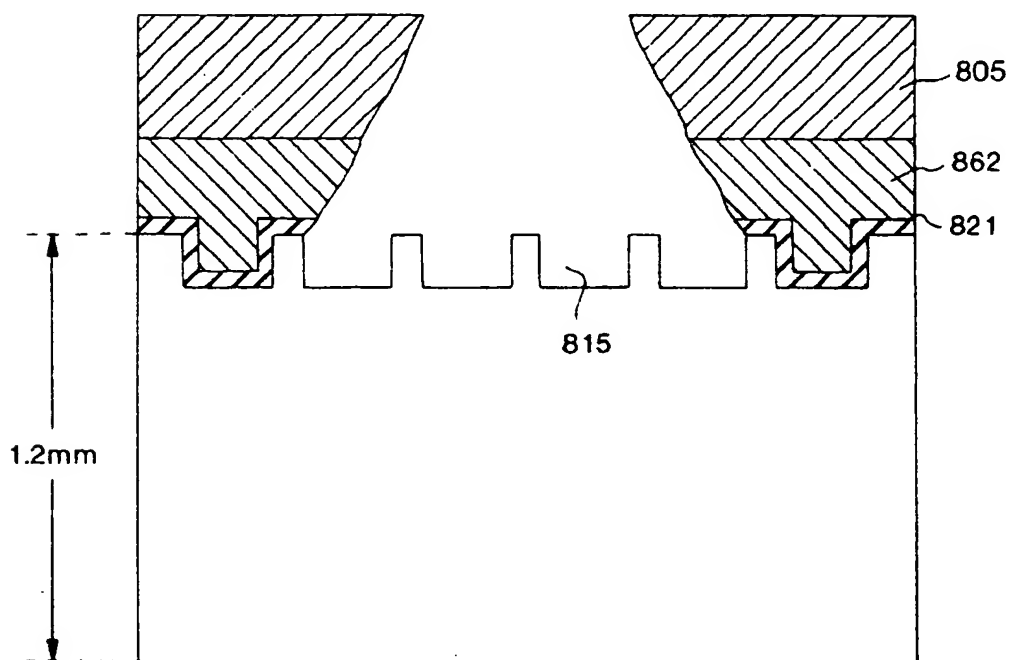


FIG. 10B

FIG. 10A

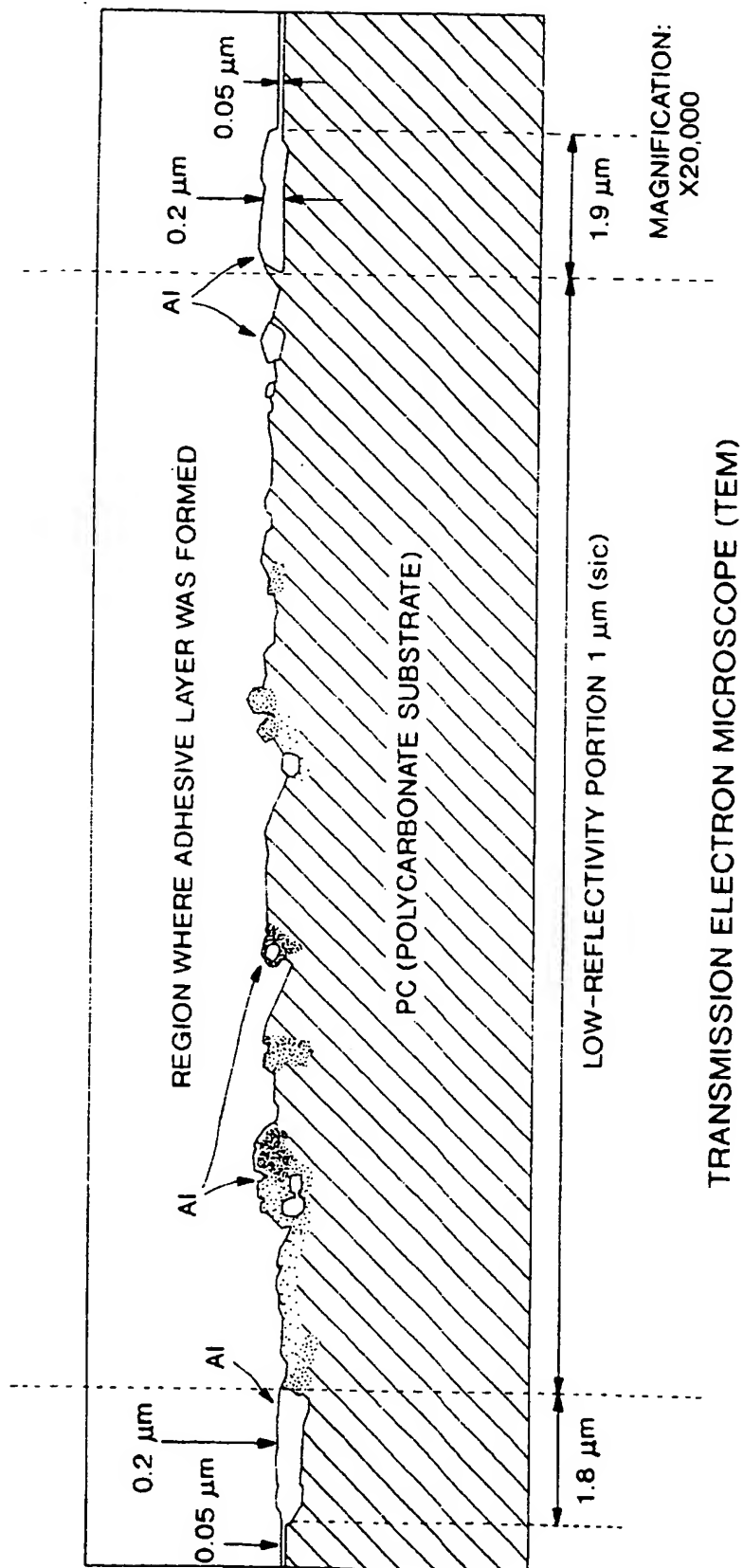


FIG. 11

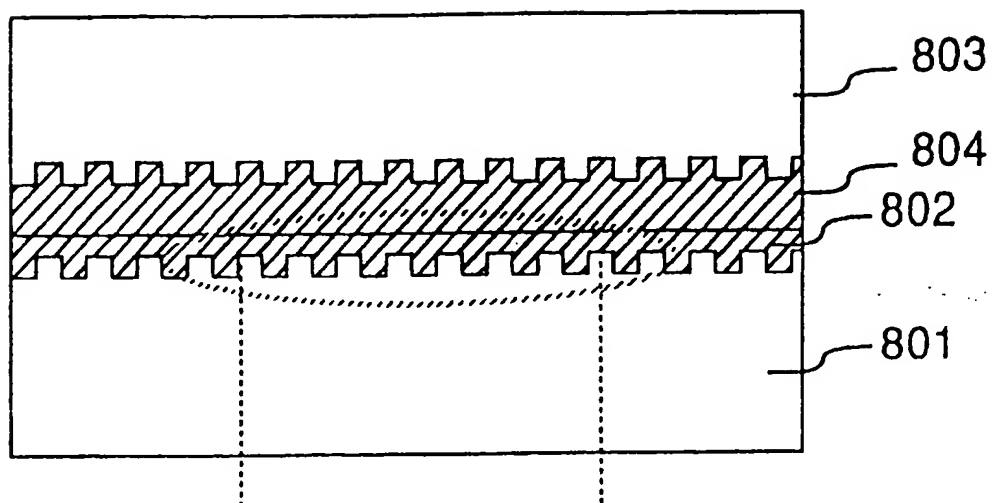


FIG. 12A

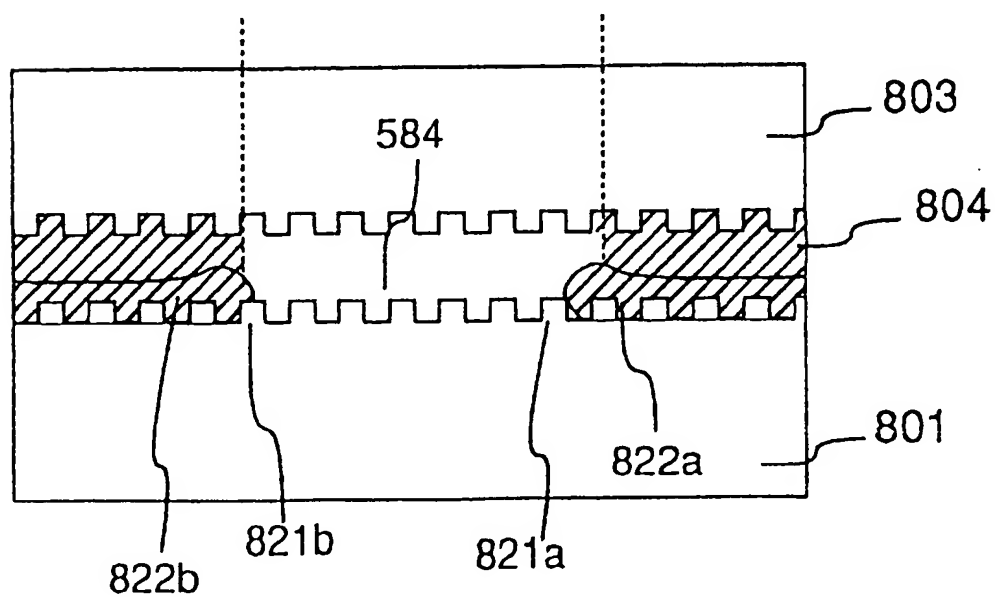
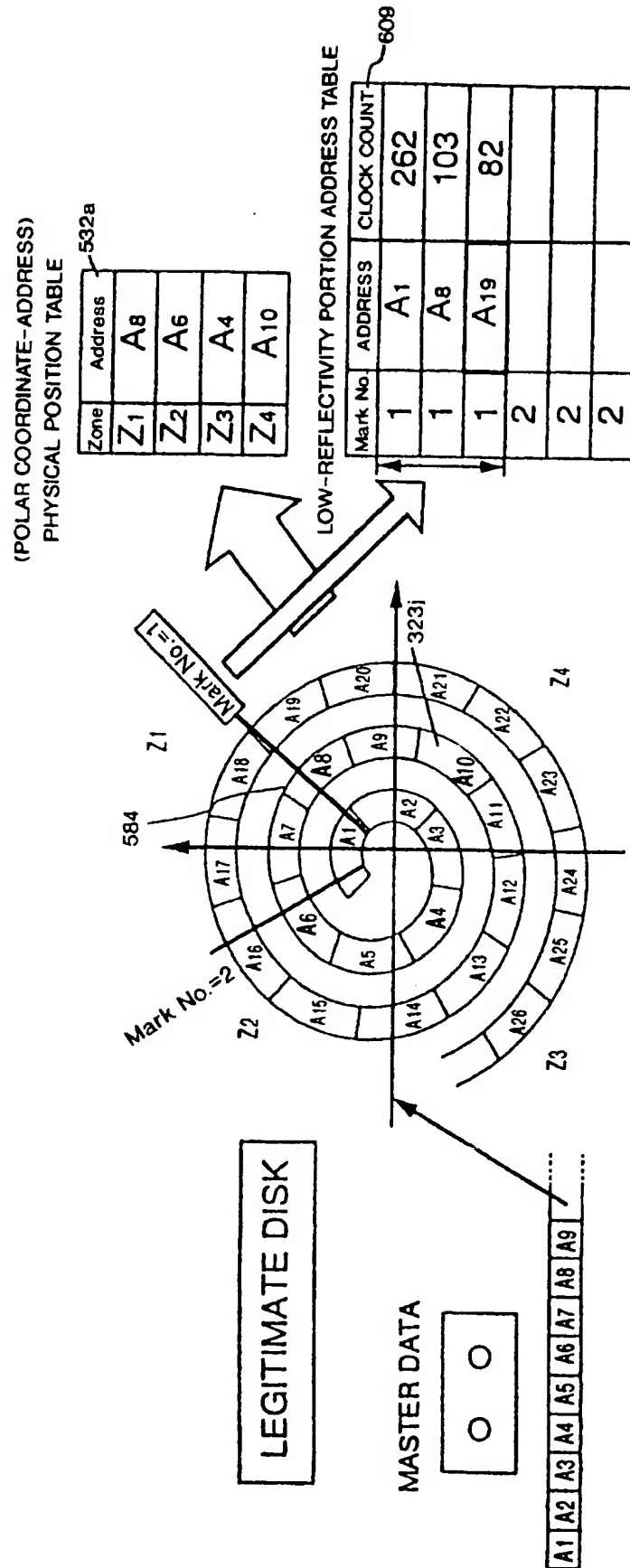
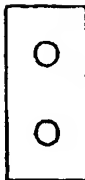


FIG. 12B

FIG. 12A



MASTER DATA



A1 A2 A3 A4 A5 A6 A7 A8 A9

ILLEGALLY DUPLICATED CD

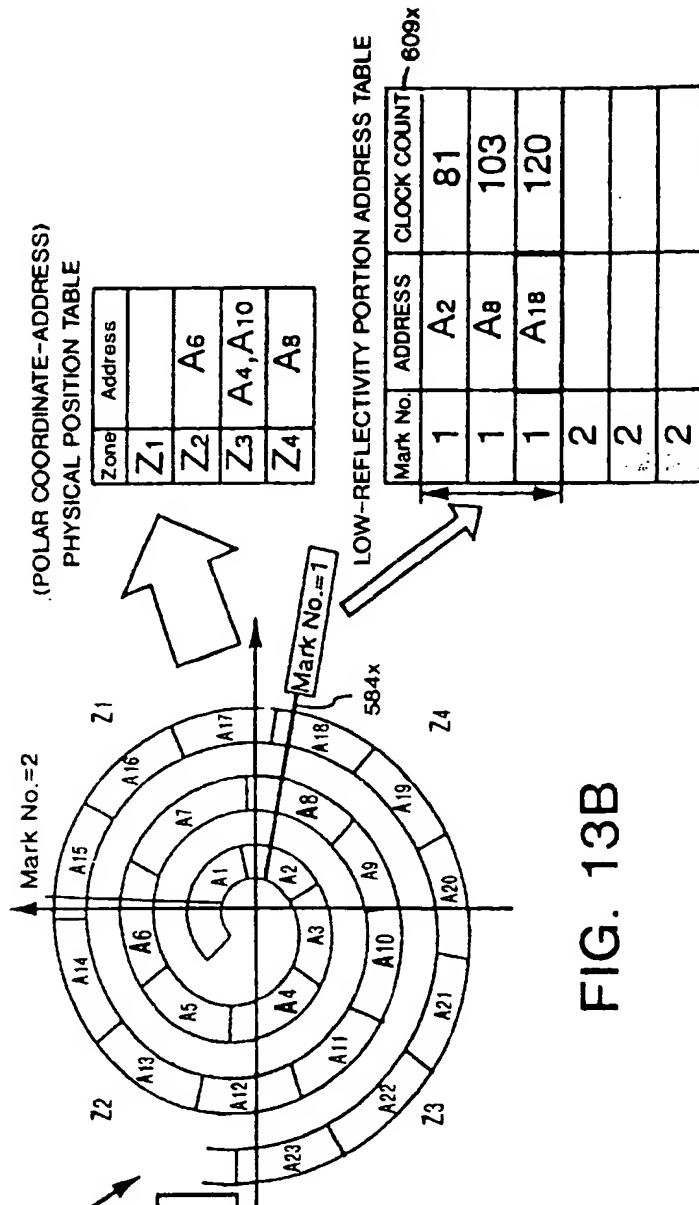


FIG. 13B

FIG. 14

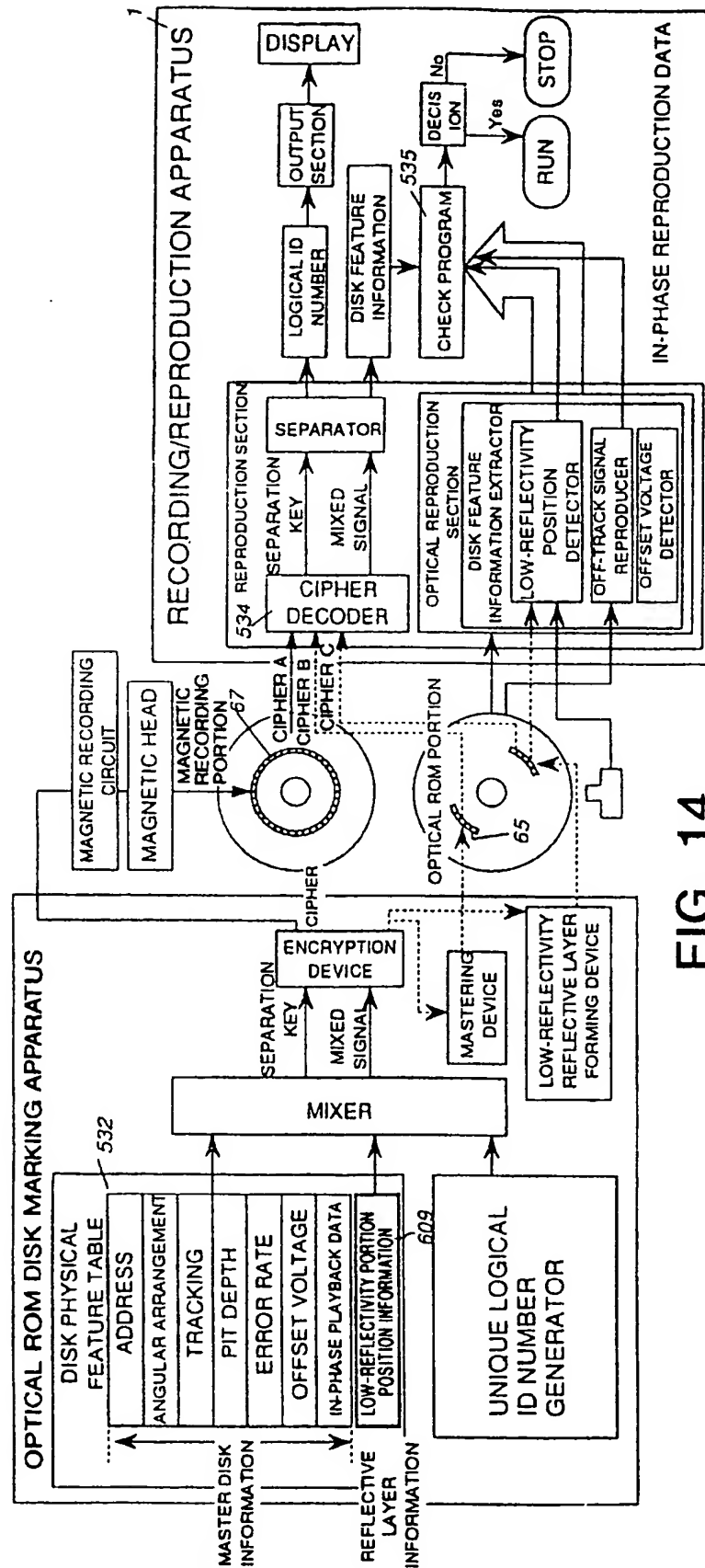
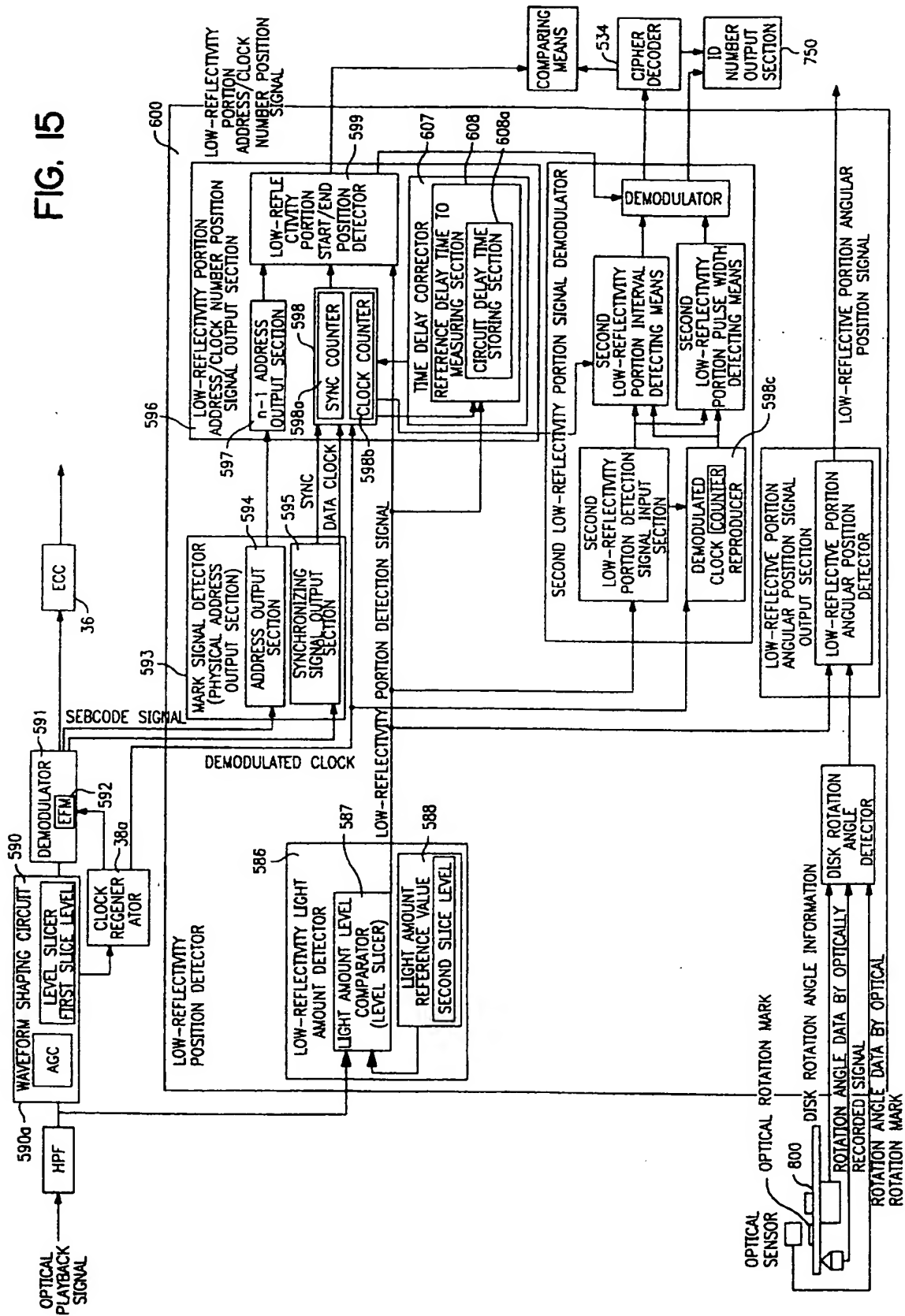


FIG. 14

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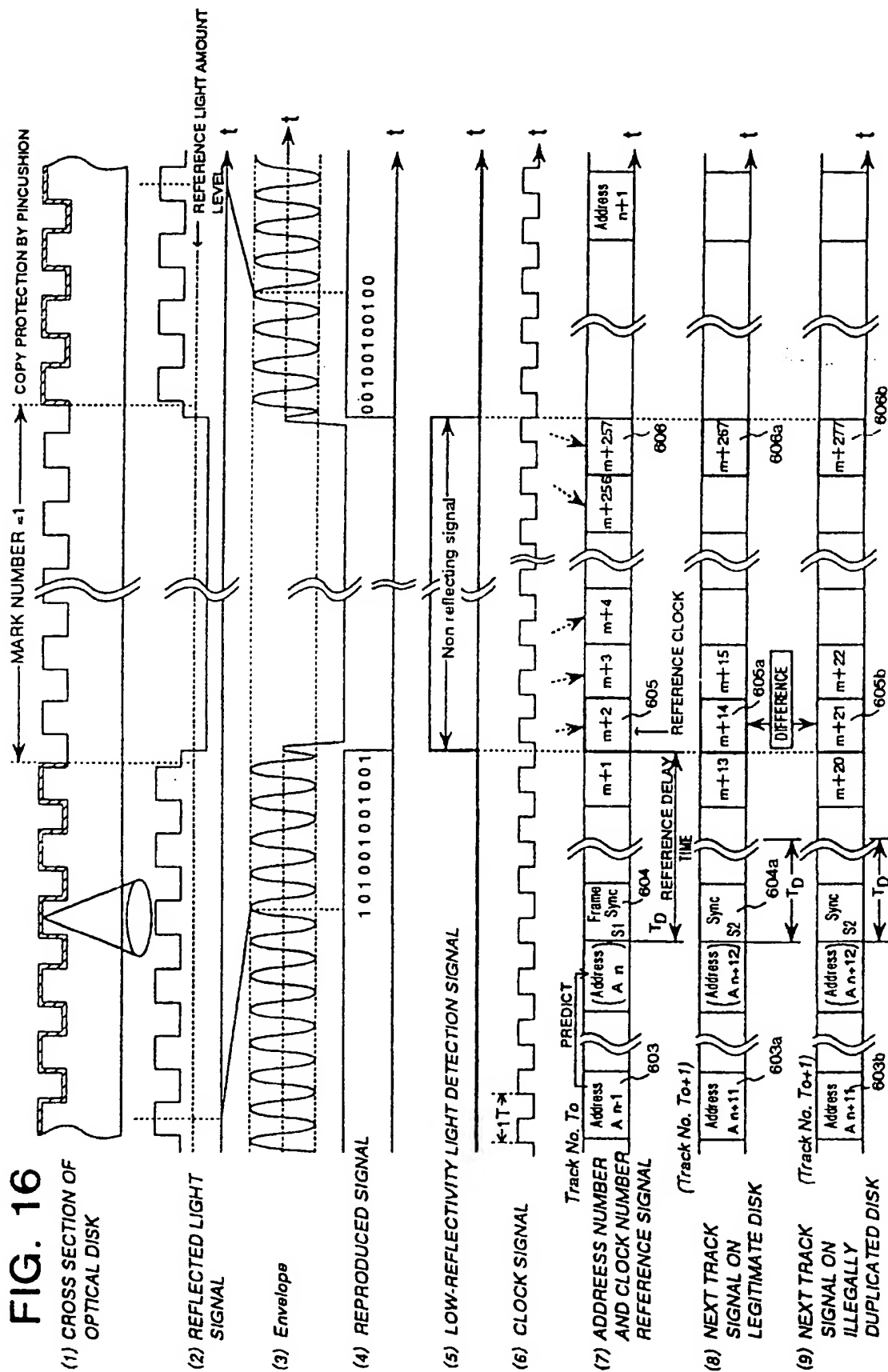


FIG. 17

LEGITIMATE DISK

LOW-REFLECTIVITY PORTION ADDRESS TABLE

MARK NO.	START POSITION		END POSITION	
	ADDRESS	Sync No	ADDRESS	CLOCK NUMBER
1	A n	S <sub>1</sub>	n	m+257
1	A n+12	S <sub>2</sub>	n+12	m+267
1	A n+23		n+23	m+300
:	:	:	:	:
2	A n+1		n+1	m+160
2	A n+13		n+13	m+250
2	A n+24		n+24	m+210
10	A n+9			
10				

PLANNING

ILLEGALLY DUPLICATED DISK

LOW-REFLECTIVITY PORTION ADDRESS TABLE

MARK NO.	START POSITION		END POSITION	
	ADDRESS	Sync No	ADDRESS	CLOCK NUMBER
1	n	S <sub>1</sub>	n	m+257
1	n+12	S <sub>2</sub>	n+12	m+277
1	n+22		n+22	m+230
:	:	:	:	:
2	n+1		n+1	m+190
2	n+13		n+13	m+281
2	n+25		n+25	
10	n+9			
10				

FIG. 17

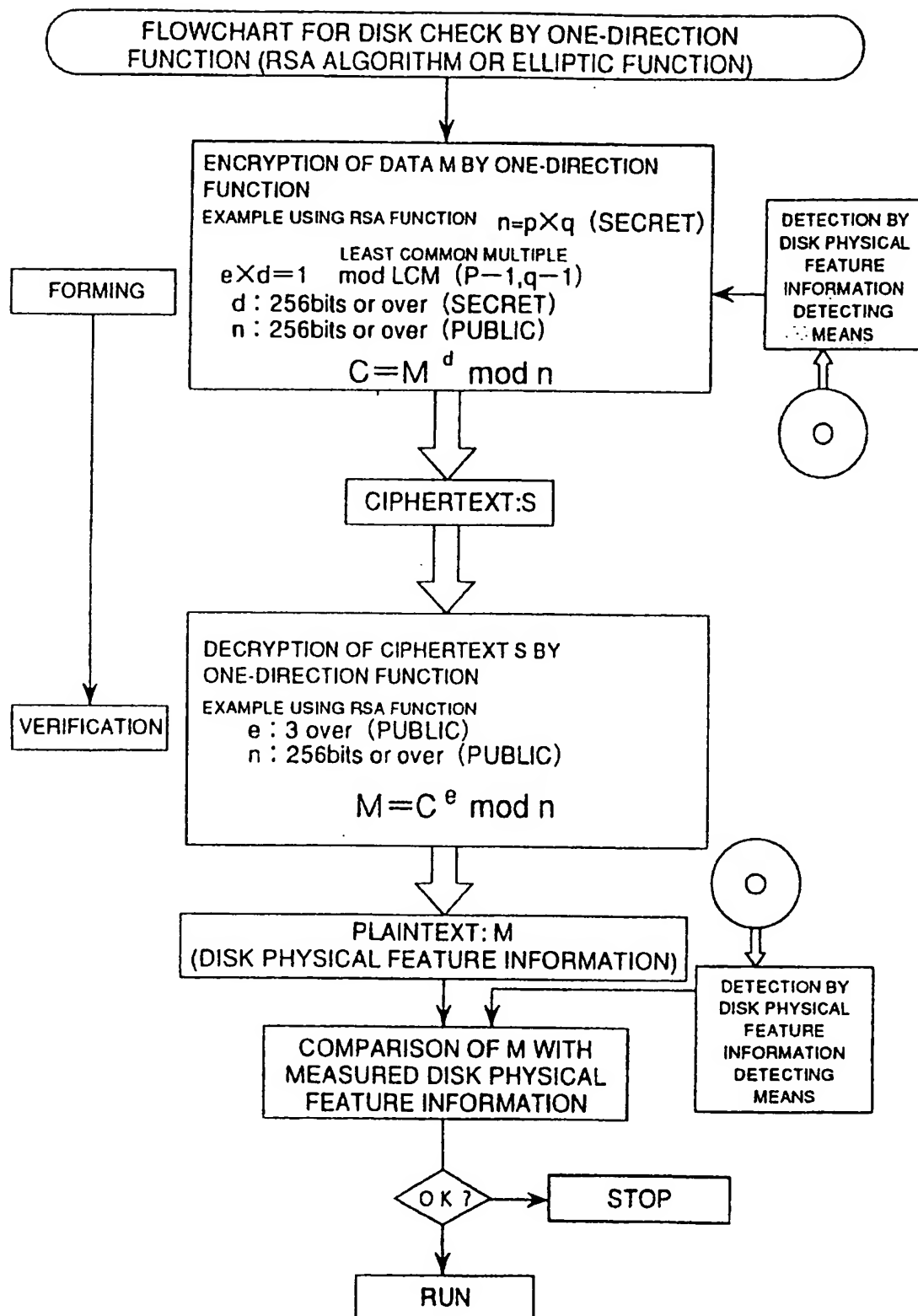


FIG. 18

FIG. 19

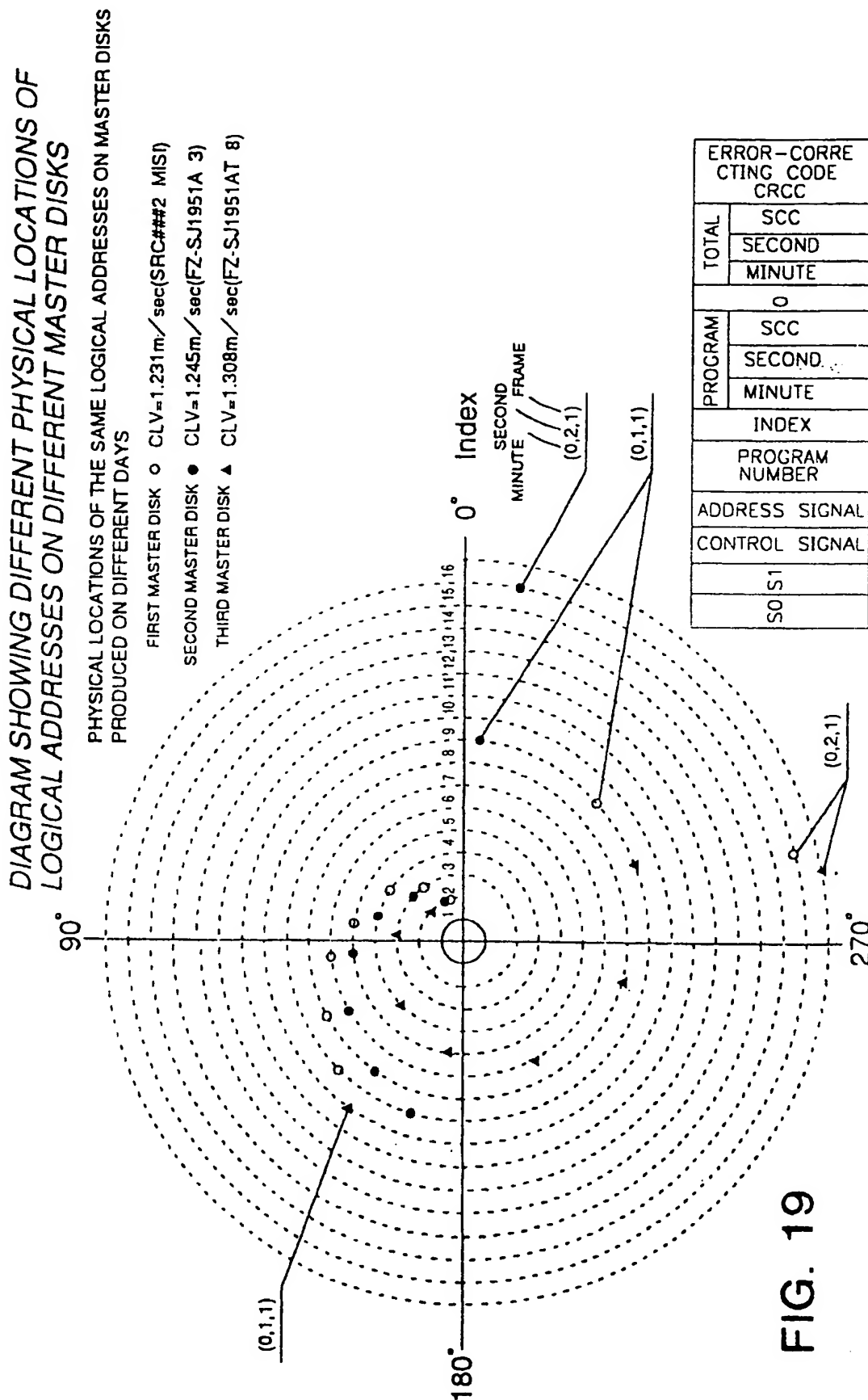


FIG. 19

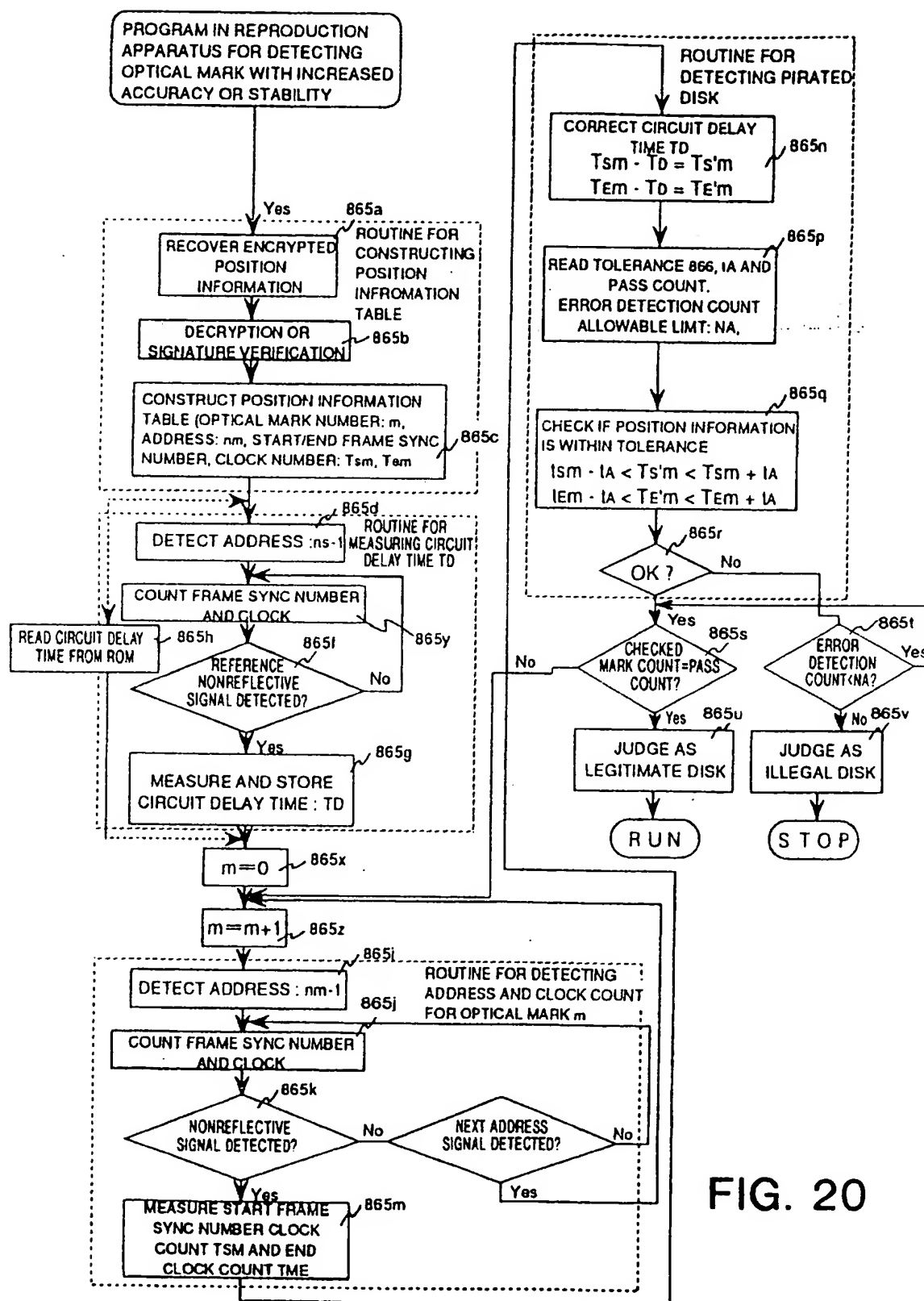


FIG. 20

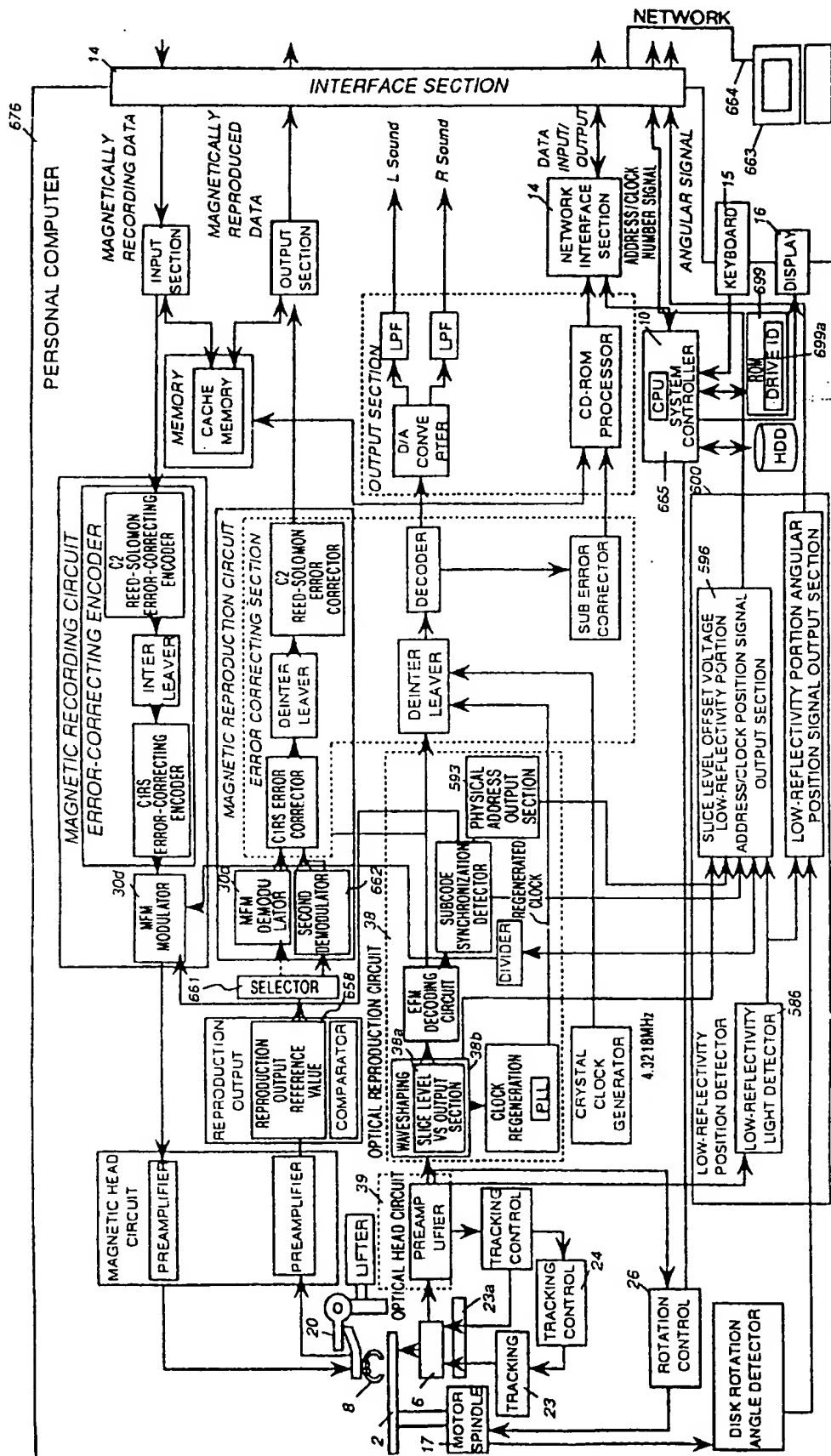


FIG. 21

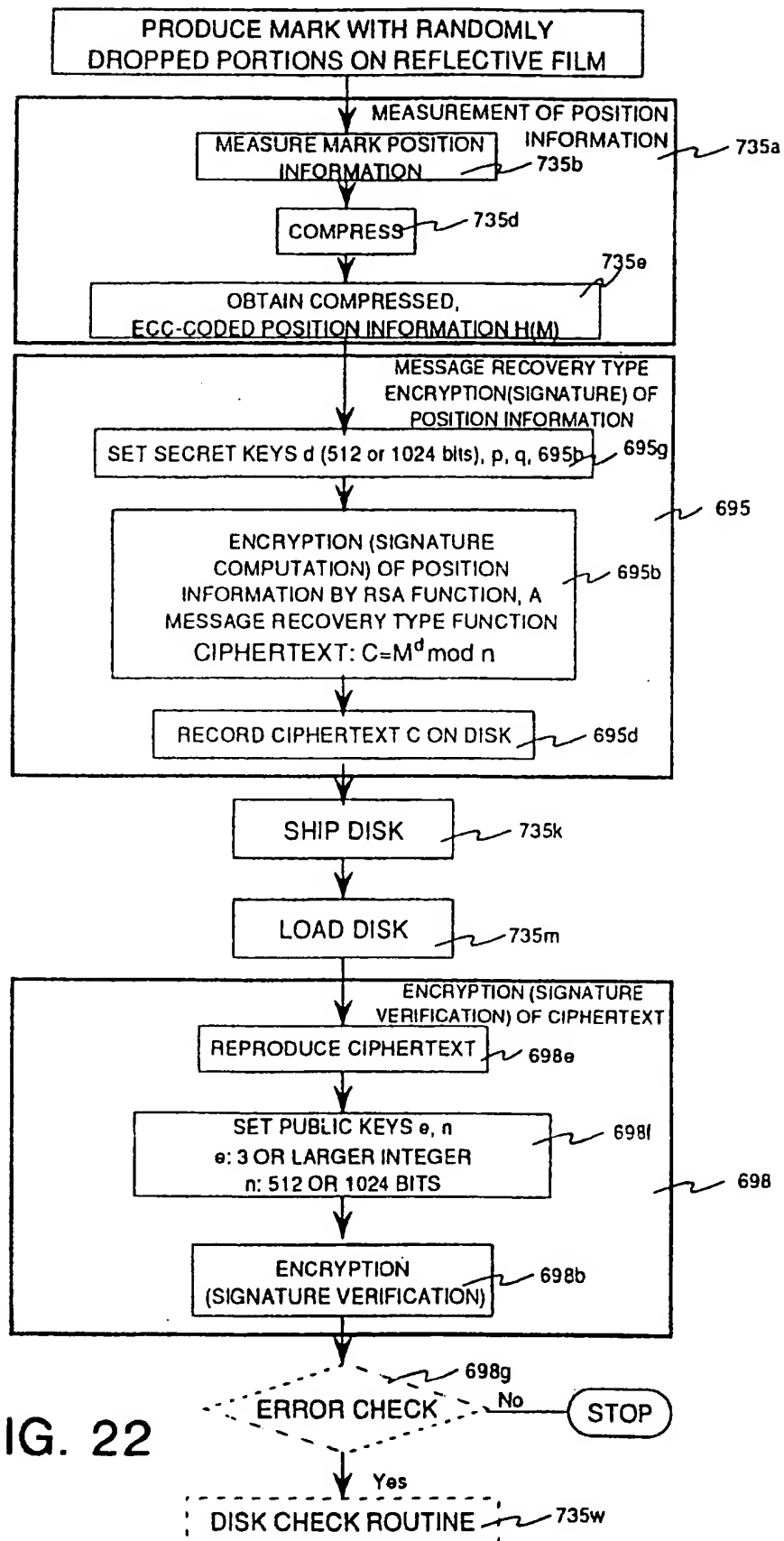


FIG. 22

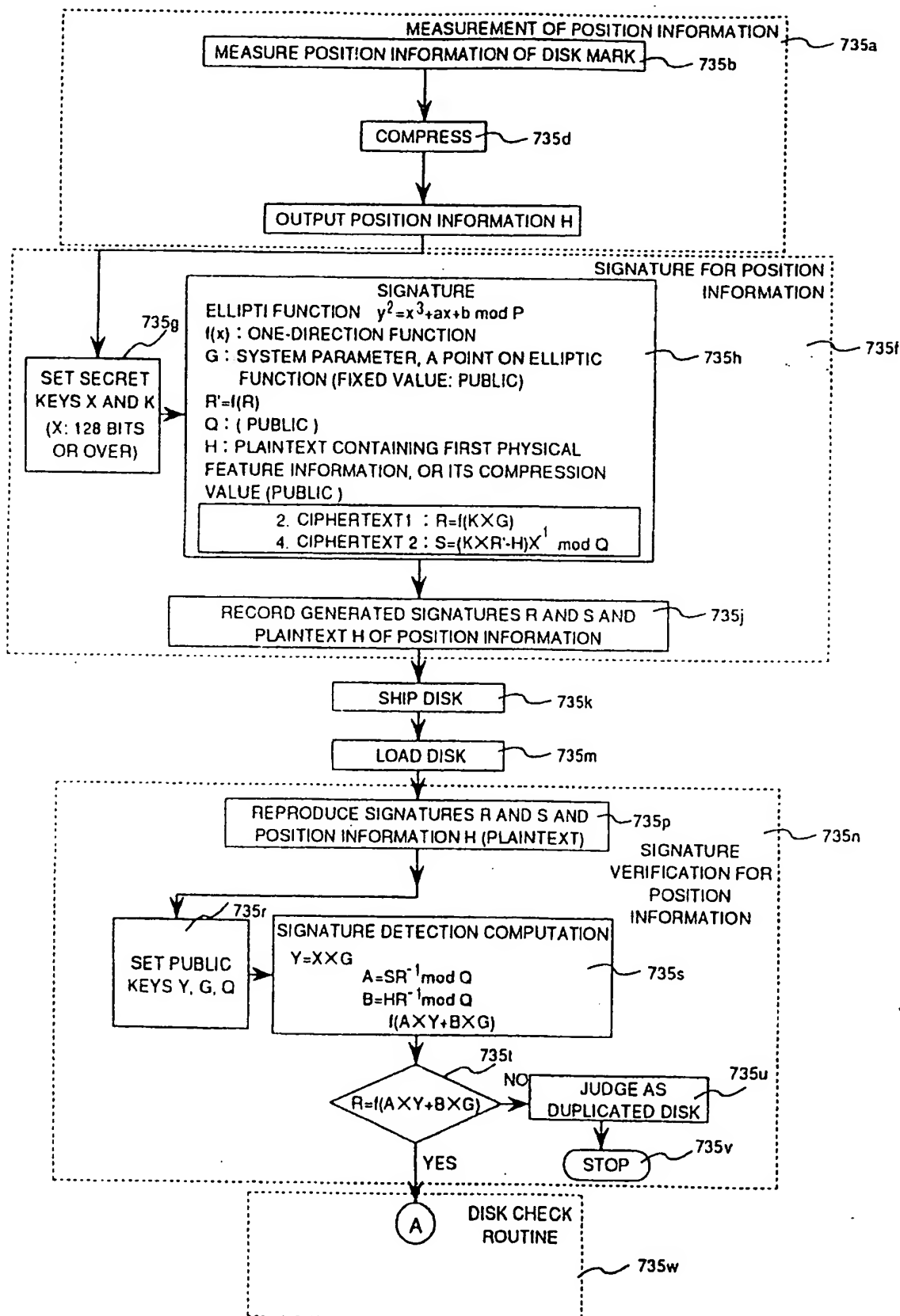


FIG. 23



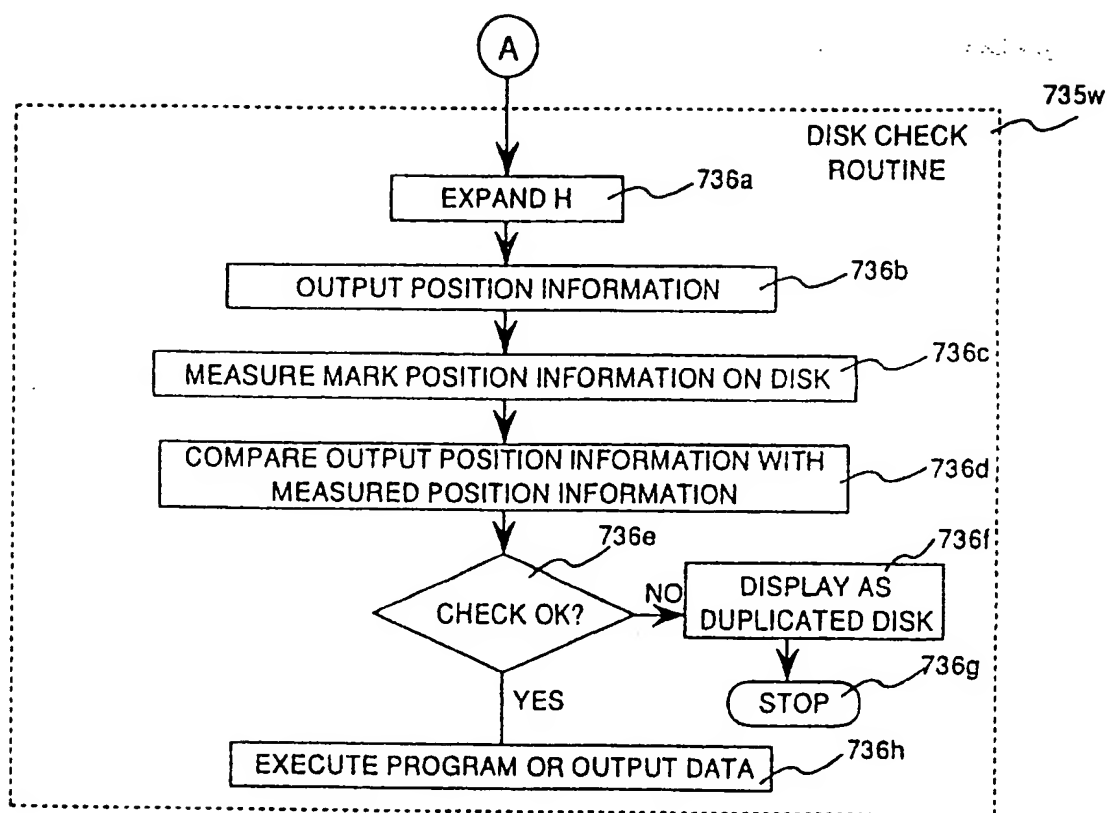


FIG. 24

1001965 - 1001971

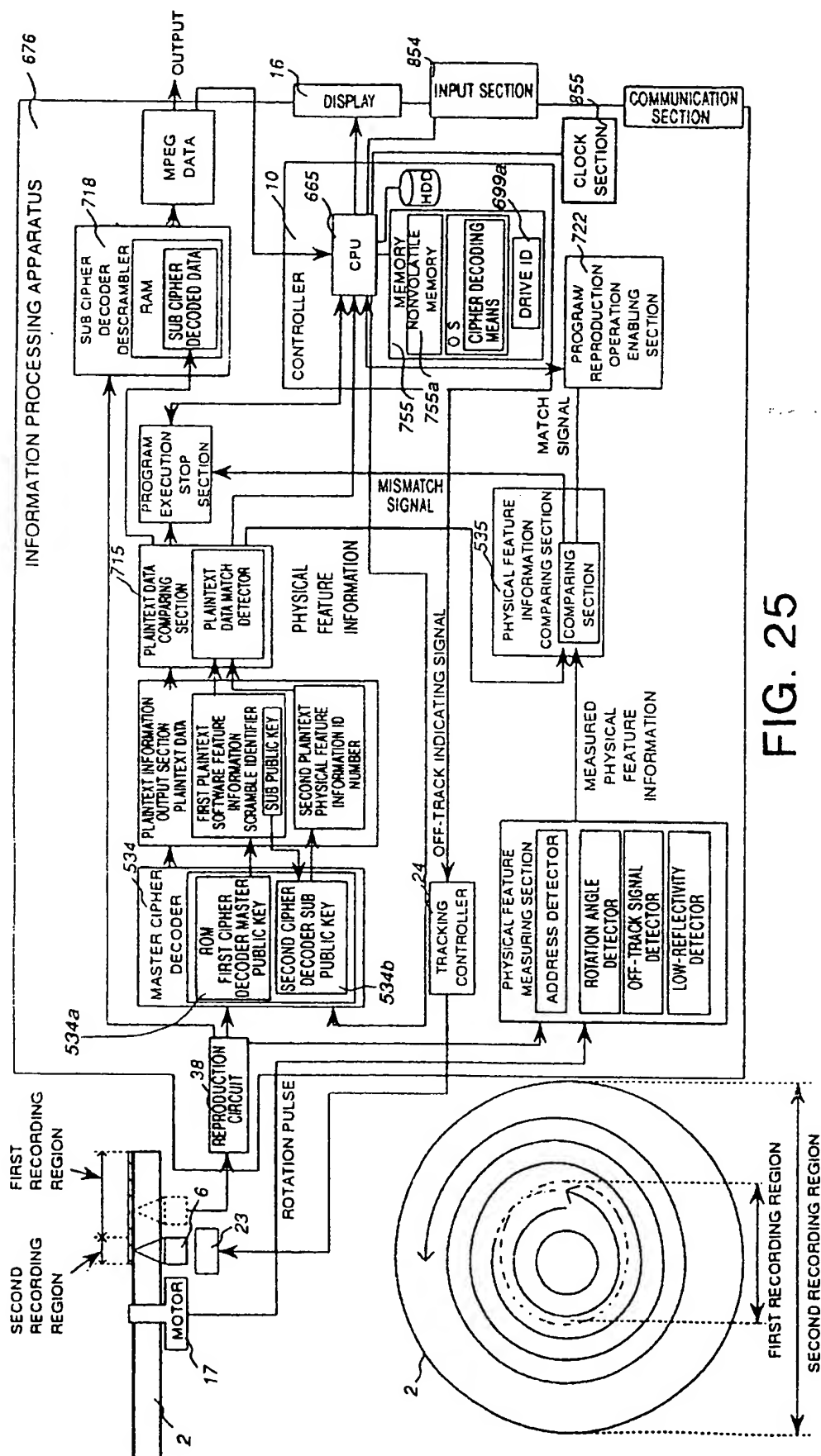


FIG. 25

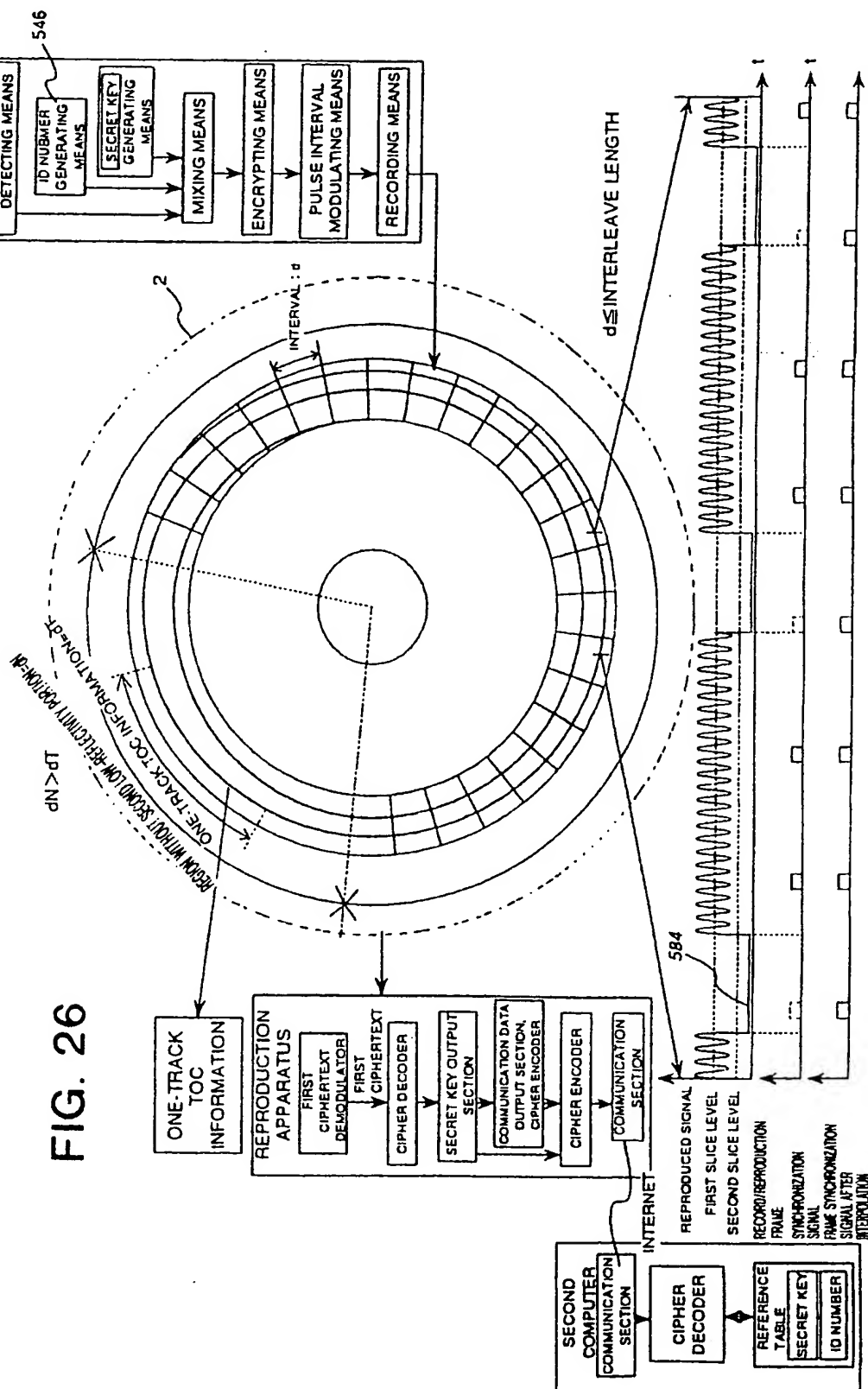
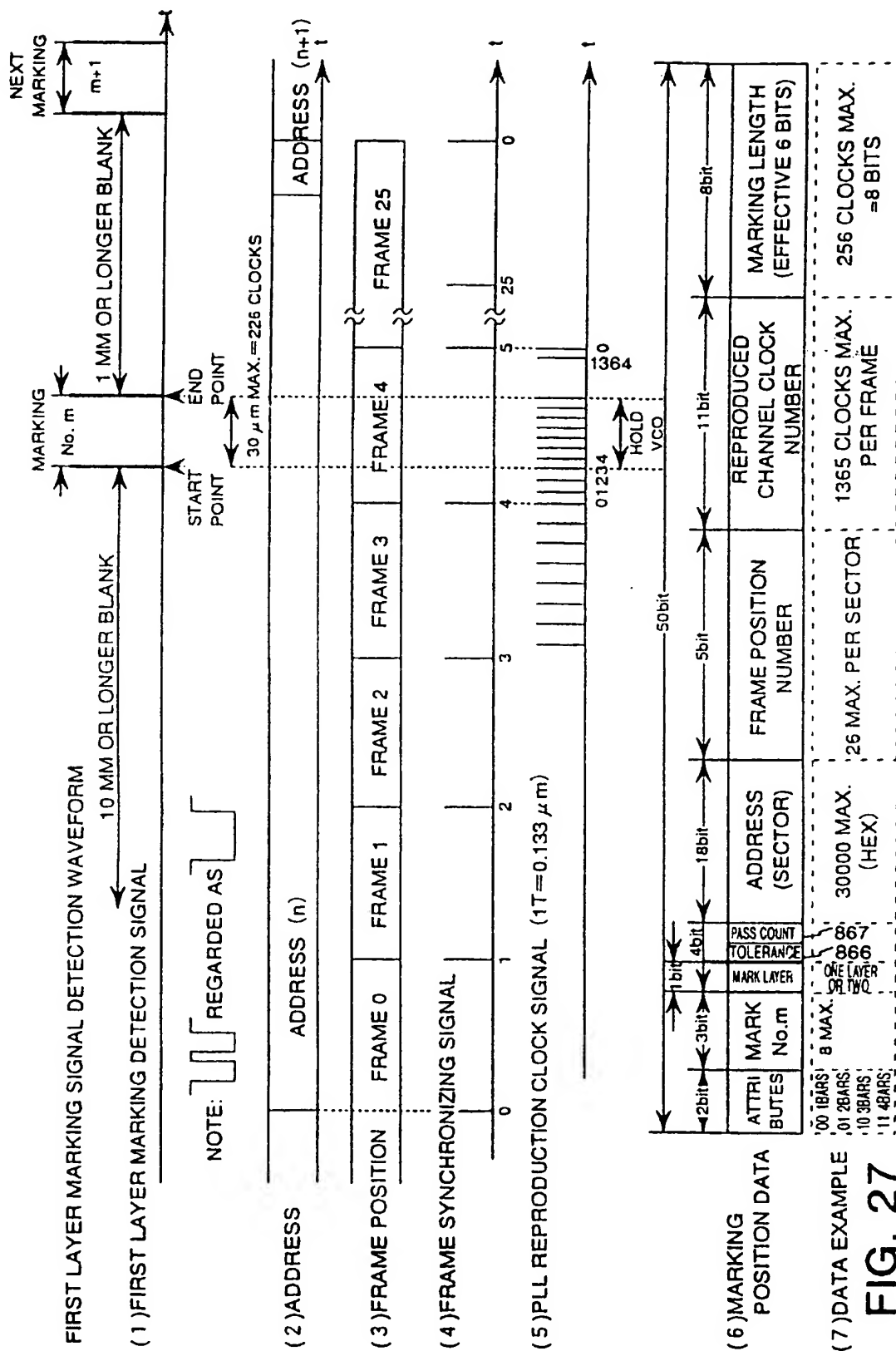


FIG. 26

FOOT" 5962FOOT



SECOND LAYER MARKING SIGNAL DETECTION WAVEFORM

(1) SECOND LAYER MARKING DETECTION SIGNAL

MARKING No. m

10 MM OR LONGER BLANK


1 MM OR LONGER BLANK

NEXT MARKING m+1

START POINT

END POINT

30  $\mu$ m MAX.  $\approx$  226 CLOCKS

NOTE:  REGARDED AS

(2) SECOND ADDRESS ADDRESS (n+10) ADDRESS (n+11)

(3) FRAME POSITION FRAME 0 FRAME 1 FRAME 2 FRAME 8 FRAME 9 FRAME 25

(4) FRAME SYNCHRONIZING SIGNAL

(5) PLL REPRODUCTION CLOCK SIGNAL ( $1T=0.133 \mu$ m)

(6) MARKING POSITION DATA

ATTRIBUTES	MARK m. mark layer	ADDRESS (SECTOR)	FRAME POSITION NUMBER	REPRODUCED CHANNEL CLOCK NUMBER	MARKING LENGTH (EFFECTIVE 6 BITS)
00 1BARS	1bit	18bit	5bit	11bit	8bit
01 2BARS	2bit				
10 3BARS					
11 4BARS					

(7) DATA EXAMPLE

30000 MAX. (HEX)

26 MAX. PER SECTOR

1365 CLOCKS MAX. PER FRAME

256 CLOCKS MAX.  $\approx$  8 BITS

ONE LAYER OR TWO LAYER

FIG. 28

**FIG. 28**

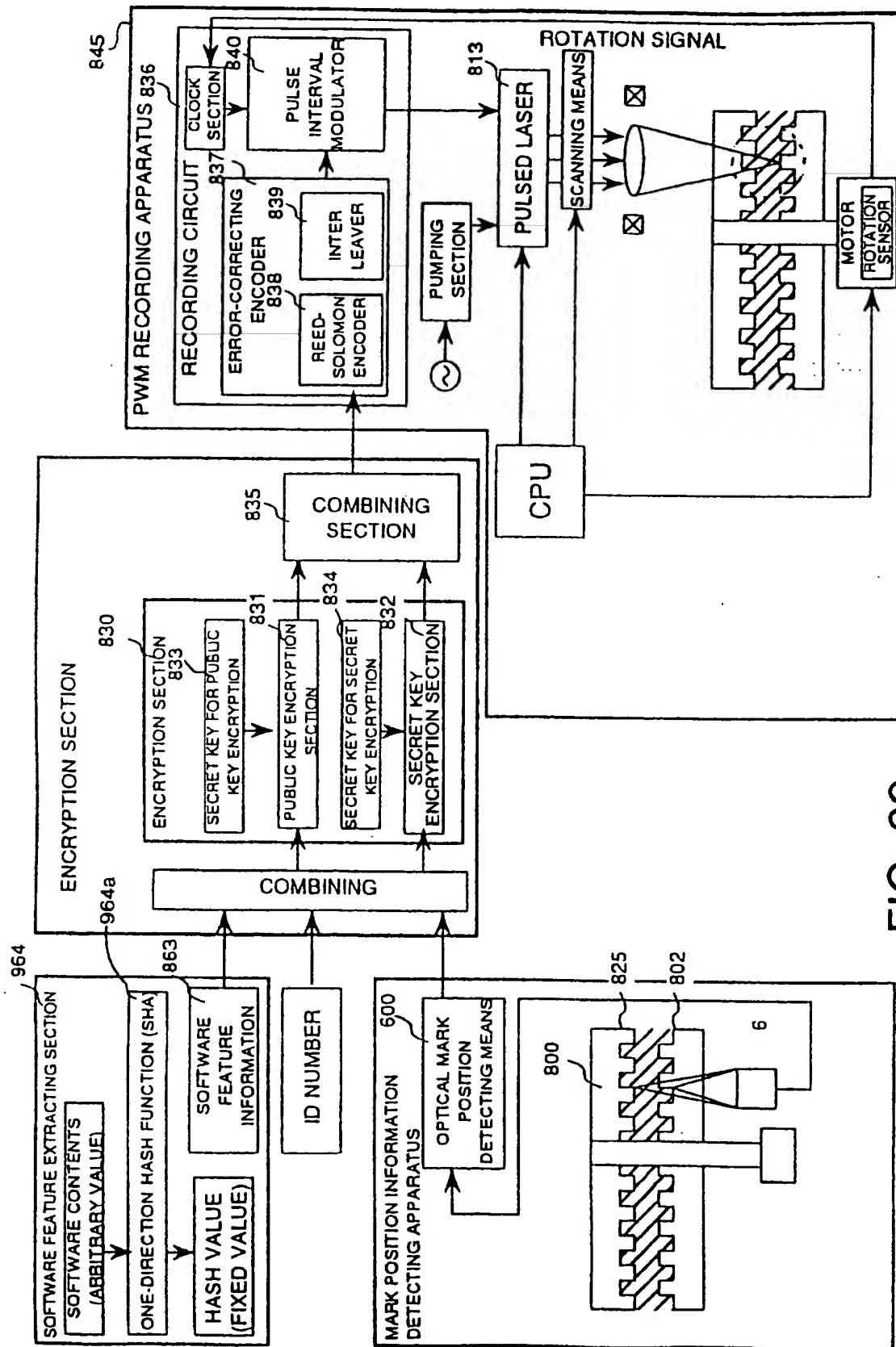


FIG. 29

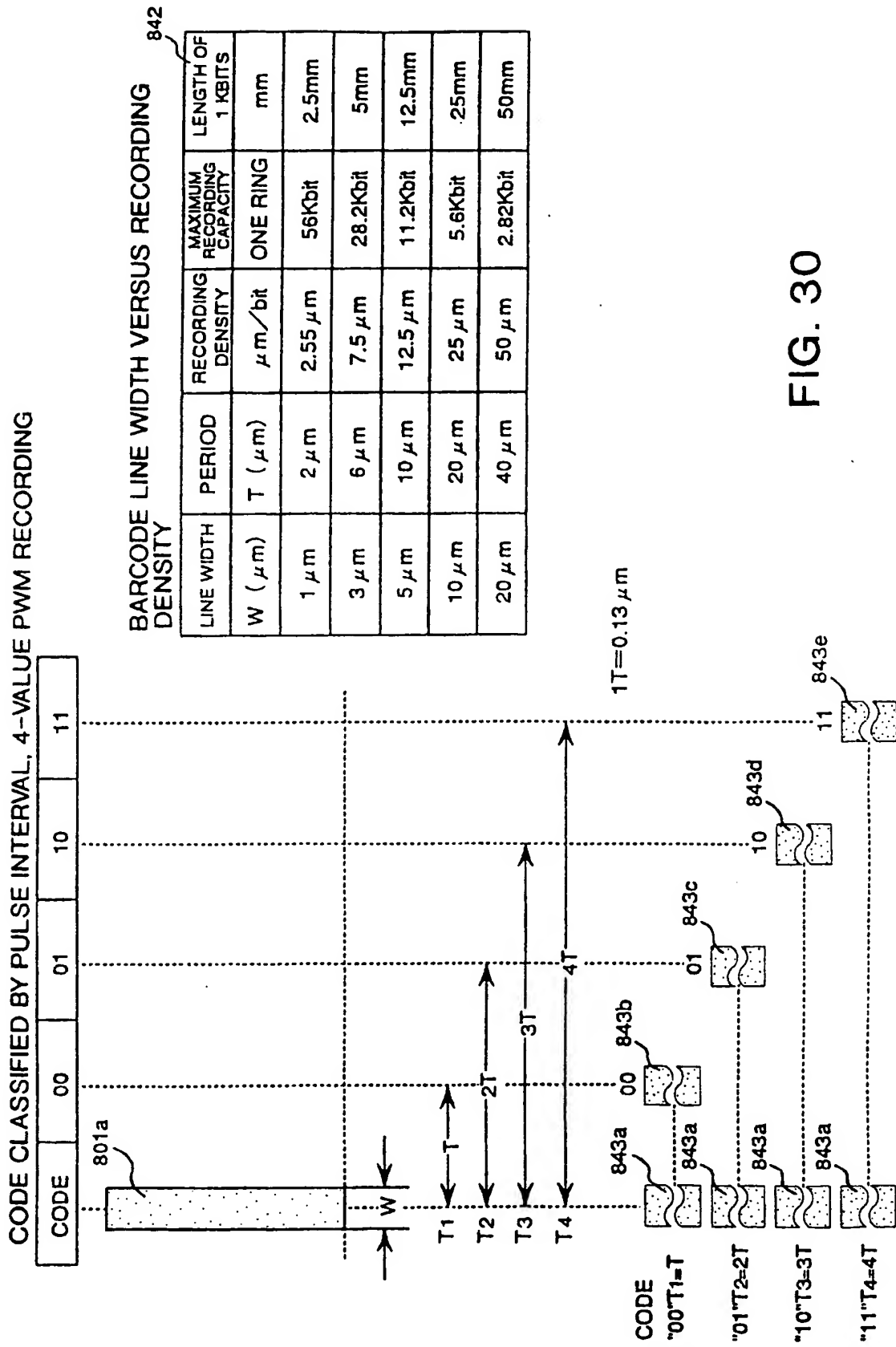


FIG. 31

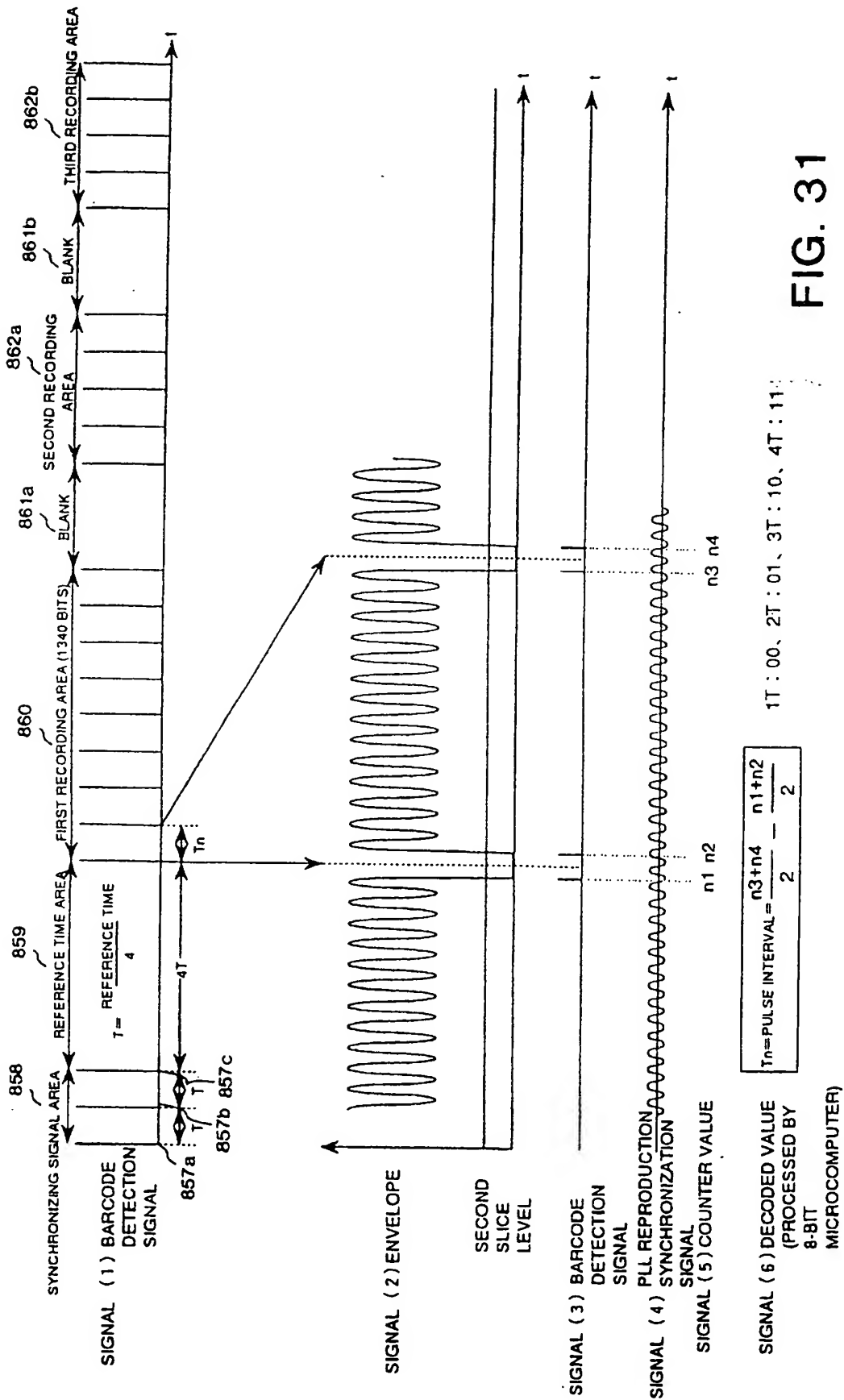


FIG. 31



The diagram illustrates a video recording system architecture, showing the flow of data from recording sections to playback sections.

**Recording Section (867):** A disk is shown, connected to the **First Cipher Text (866e)** and **Second Cipher Text (866f)** paths.

**First Cipher Text (866e) Path:**

- Record on Master Disk (866e):** Receives data from the recording section.
- First Digital Signature Generator (866b):** Generates a signature for the master disk.
- Master Secret Key for Public Key Encryption (866b):** Used for encryption.
- Sub Public Key for Public Key Encryption (866c):** Used for encryption.
- Software Feature Information (863):** Contains **Anti-Piracy Identifier (48BIT)** and **Software Feature Information (256BIT)**.
- Software Feature Extracting Section (863):** Extracts features from the software.
- One-Direction Hash Function (864):** Processes the extracted features.
- Compressed Information of TOC, MPEG Parameters (864a):** Stores the processed information.
- Chapter-by-Chapter Time Organization of Video Software:** Organizes the video content.
- MPEG Image Compression Parameters:** Provides parameters for image compression.
- Initial Screen:** The starting point for playback.

**Second Cipher Text (866f) Path:**

- Second Digital Signature Generator (866f):** Generates a signature for the second cipher text.
- Sub Secret Key for Public Key Encryption (866f):** Used for encryption.
- Position Information of Disk Physical Mark (868):** Provides location data.
- Disk ID (869):** Identifies the disk.
- Position Information of Disk Physical Mark (869):** Provides location data.
- Secret Key for Secret Key Encryption (876):** Used for encryption.
- Encrypt (876):** Encrypts the data.
- Secret Key for Secret Key Encryption (876):** Used for encryption.

**Record Information:**

- Basic Record Information (13408BIT):** Contains **Counter Y Code (78BIT)**, **User Area (768BIT)**, **Disk ID Number (Plaintext) (328BIT)**, and **Country Code (78BIT)**.
- Additional Record Information (208BIT):** Contains **First Additional Record Information (208BIT)** and **Second Additional Record Information (208BIT)**.
- Third User Area Password:** A password for the user area.

**Encrypted Position Information (Second Cipher Text):** A block containing **Public Key Cipher (512BIT)** and **Secret Key Cipher (256BIT)**.

FIG. 32

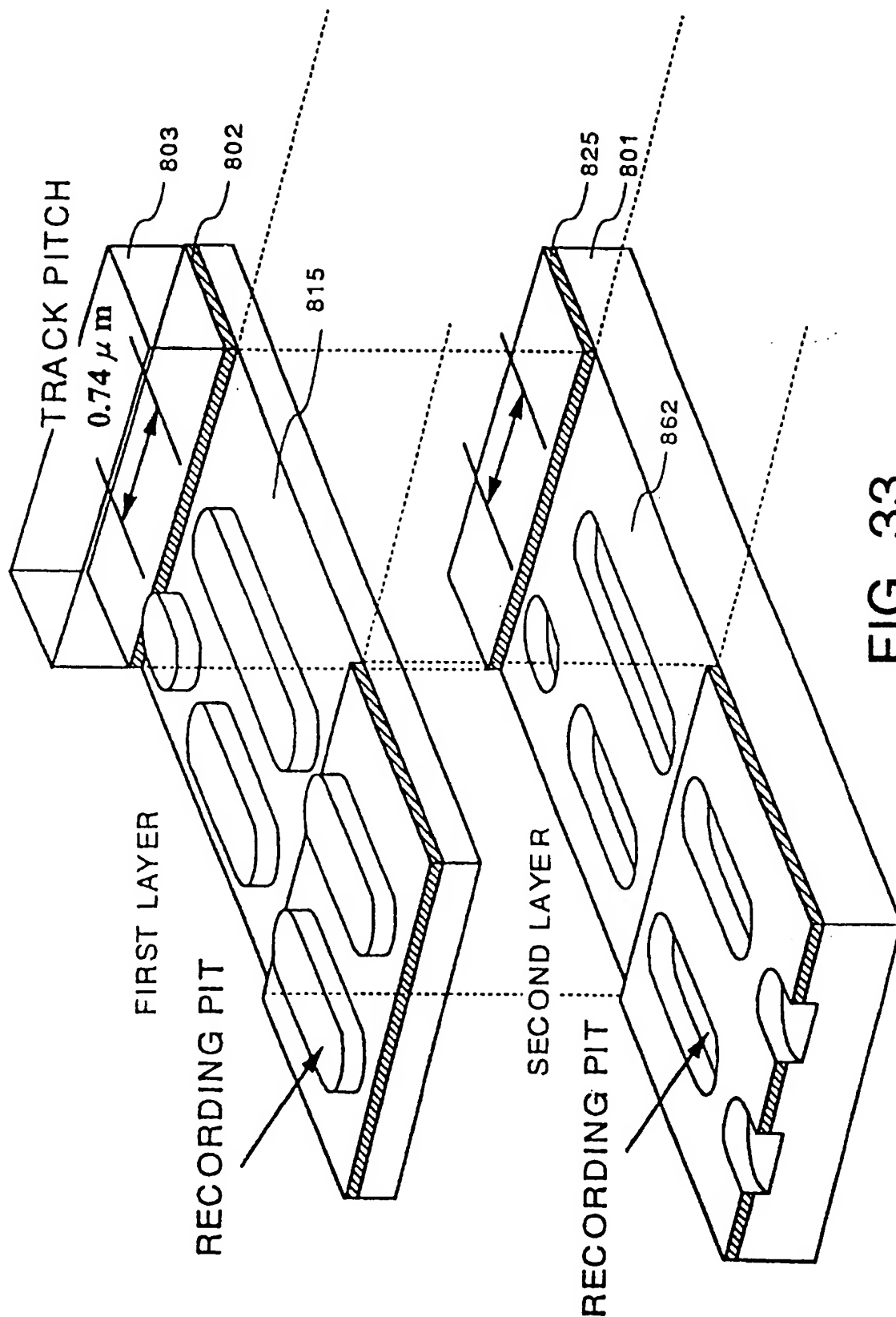


FIG. 33

FOOT - 5962FOOT

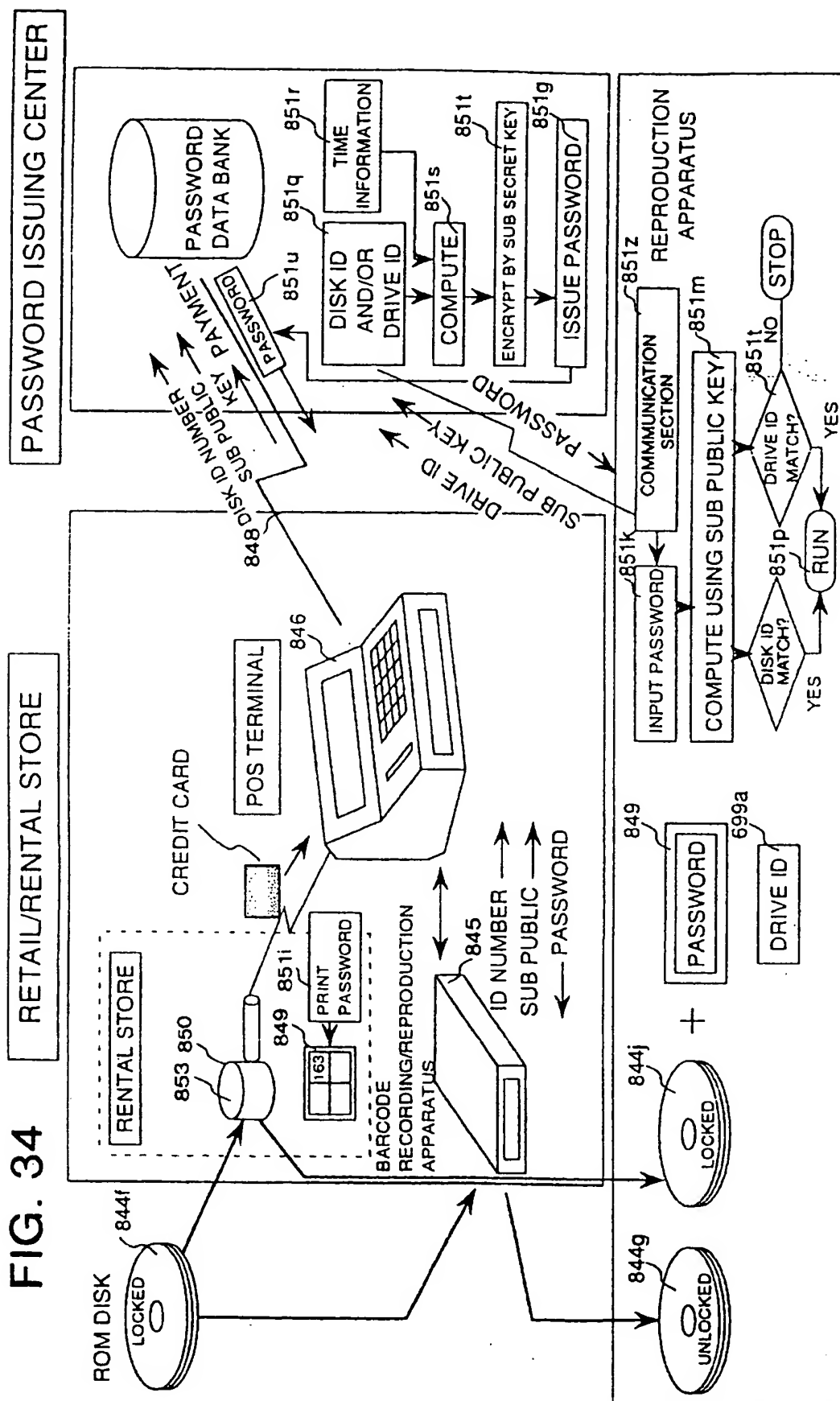


FIG. 35

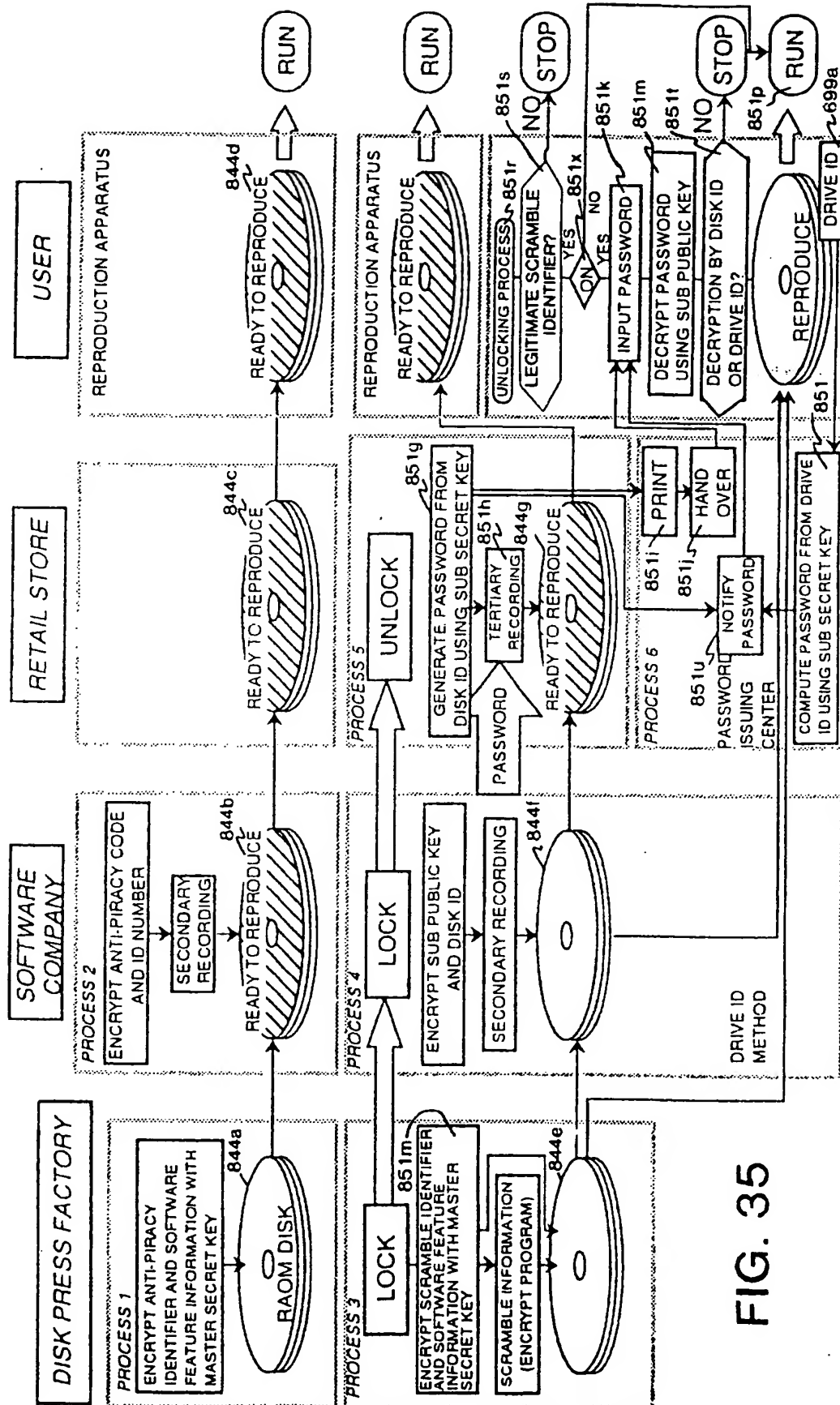
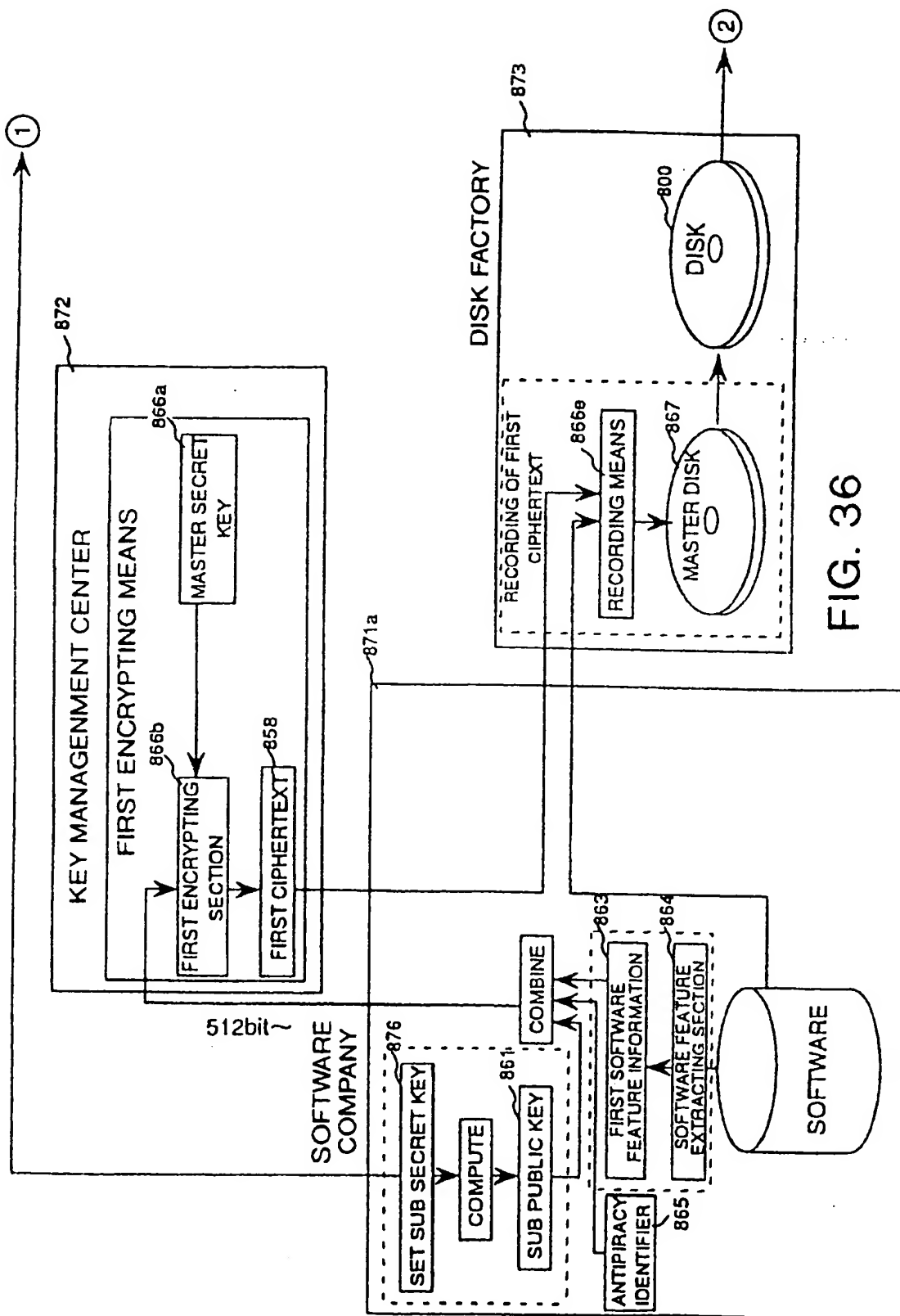


FIG. 35

FIG. 36





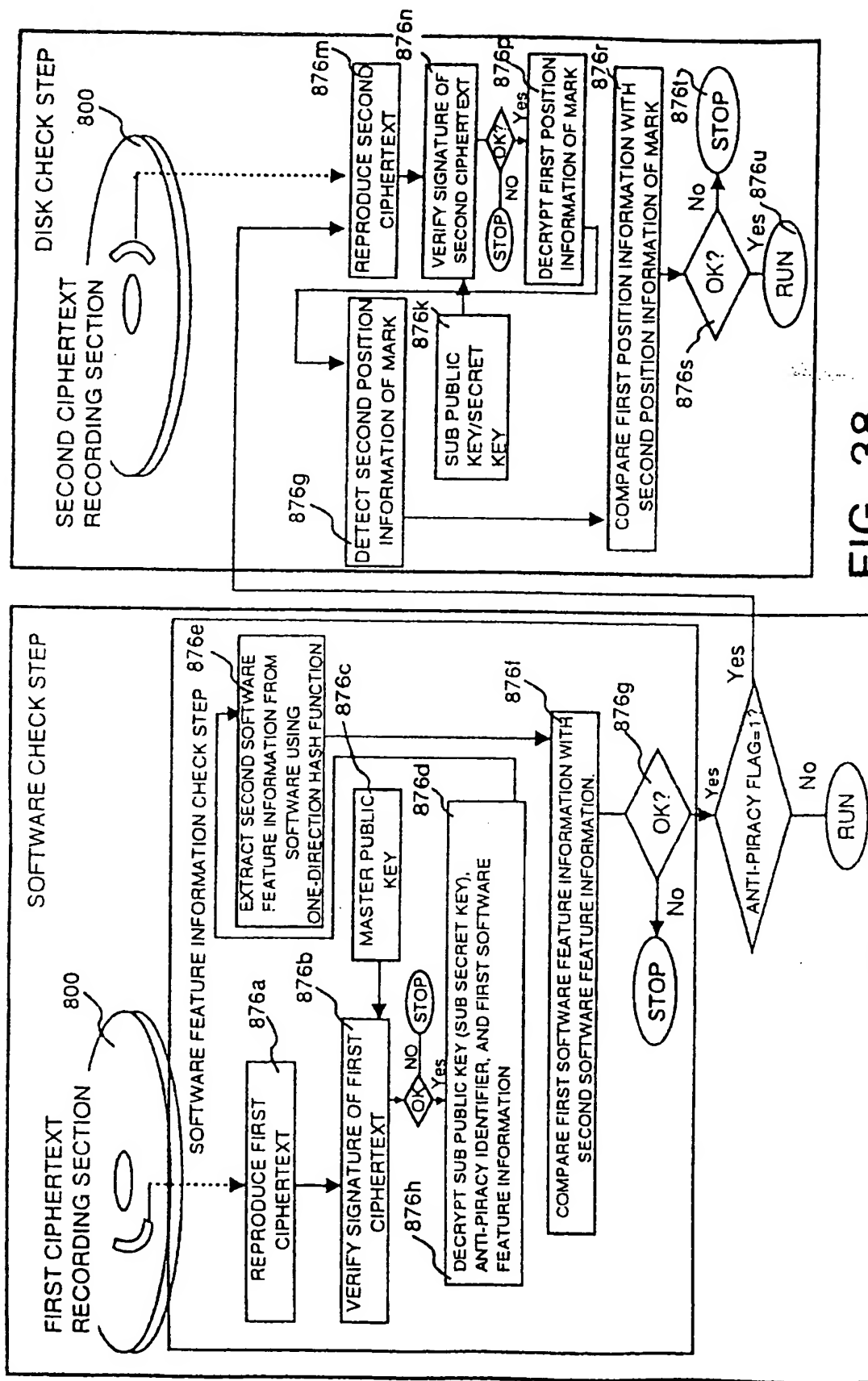
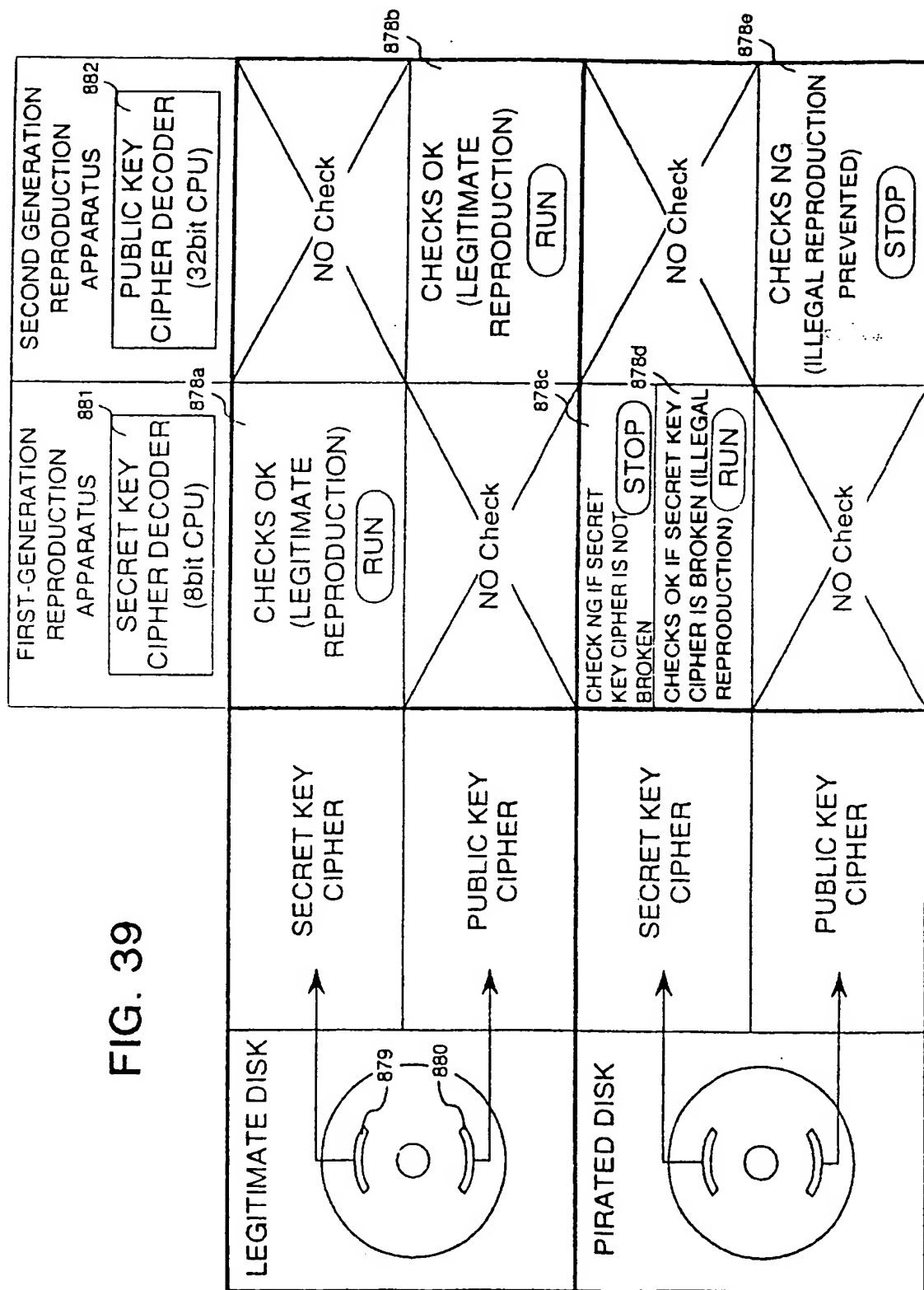


FIG. 38





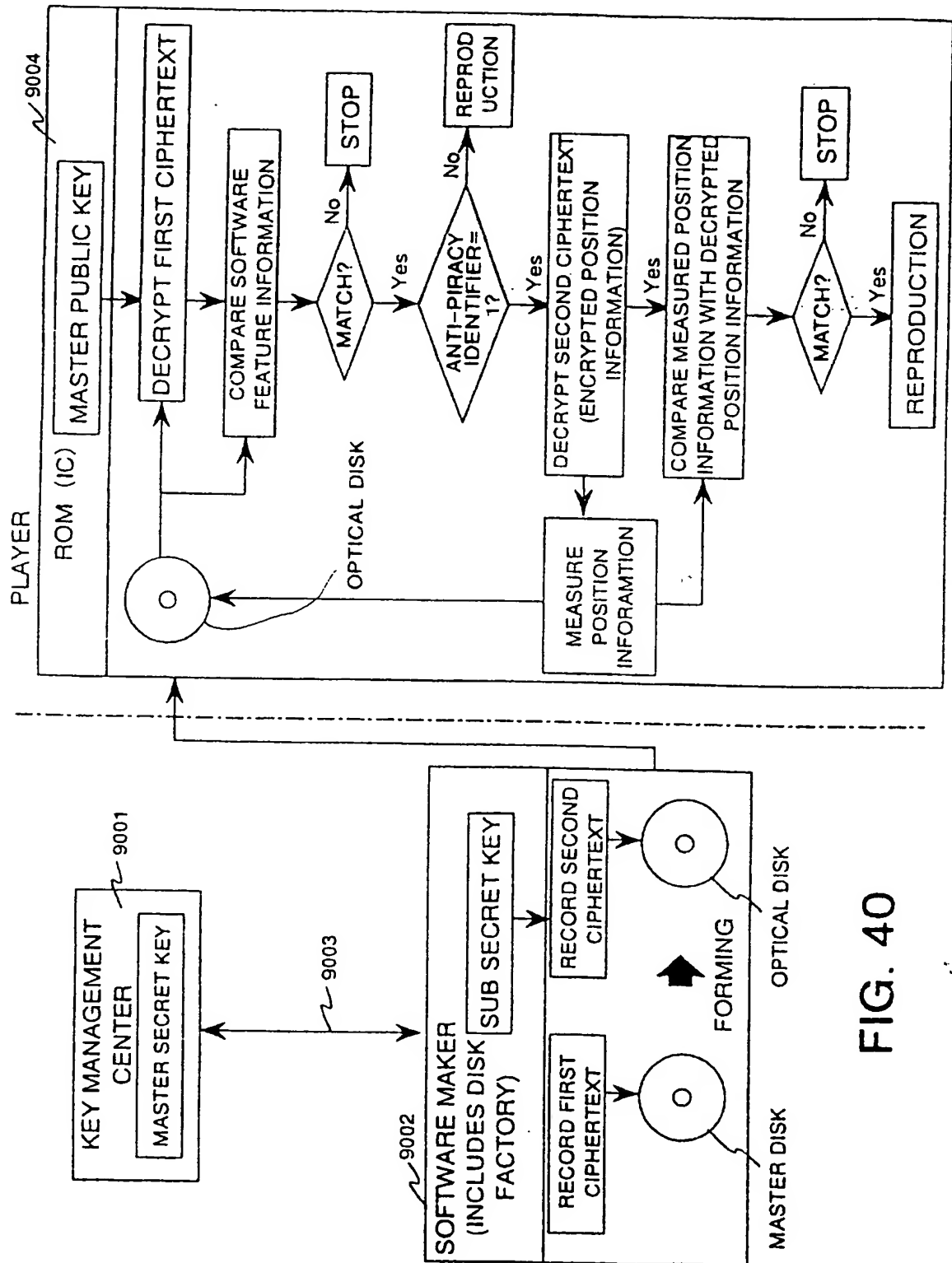


FIG. 40

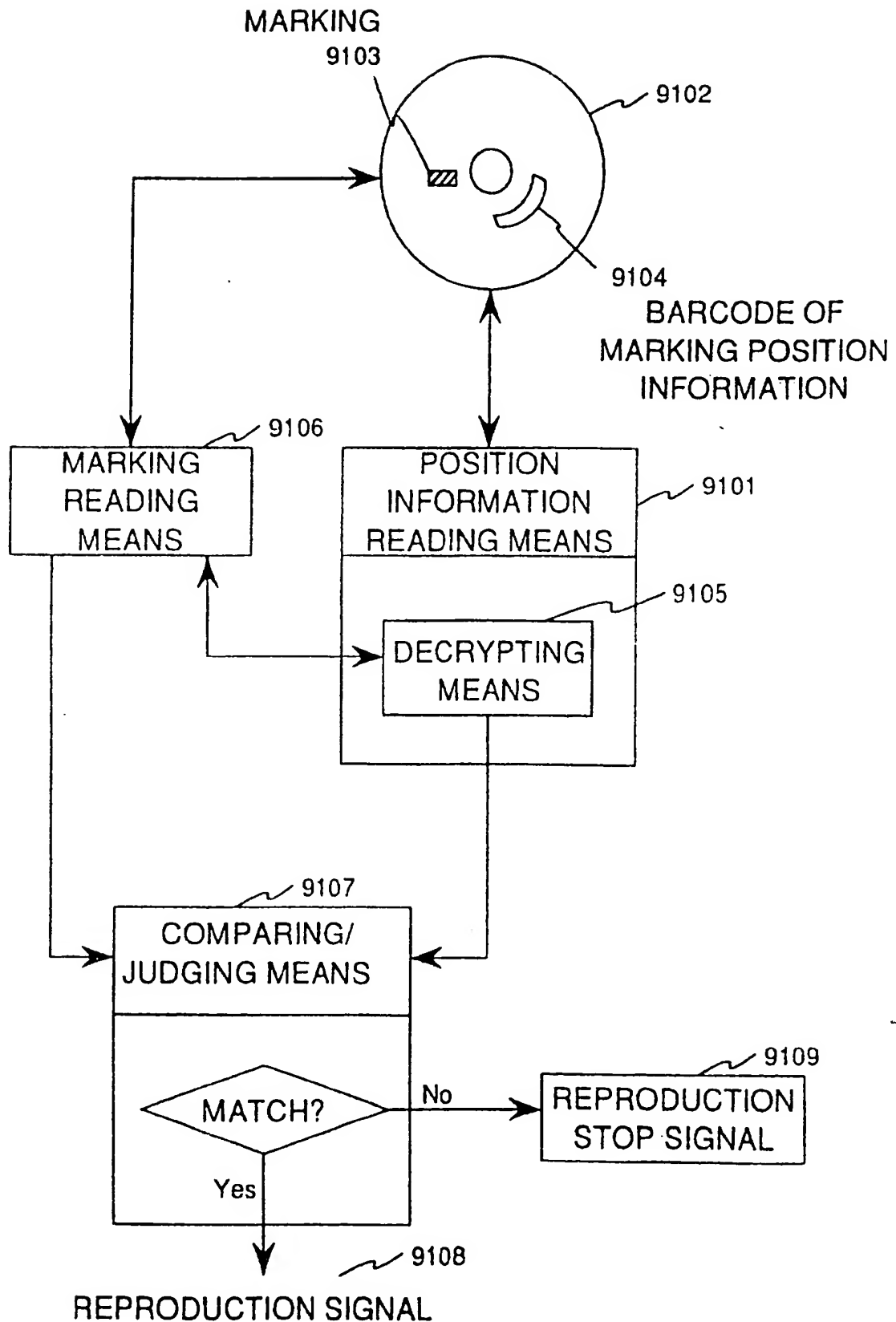


FIG. 41

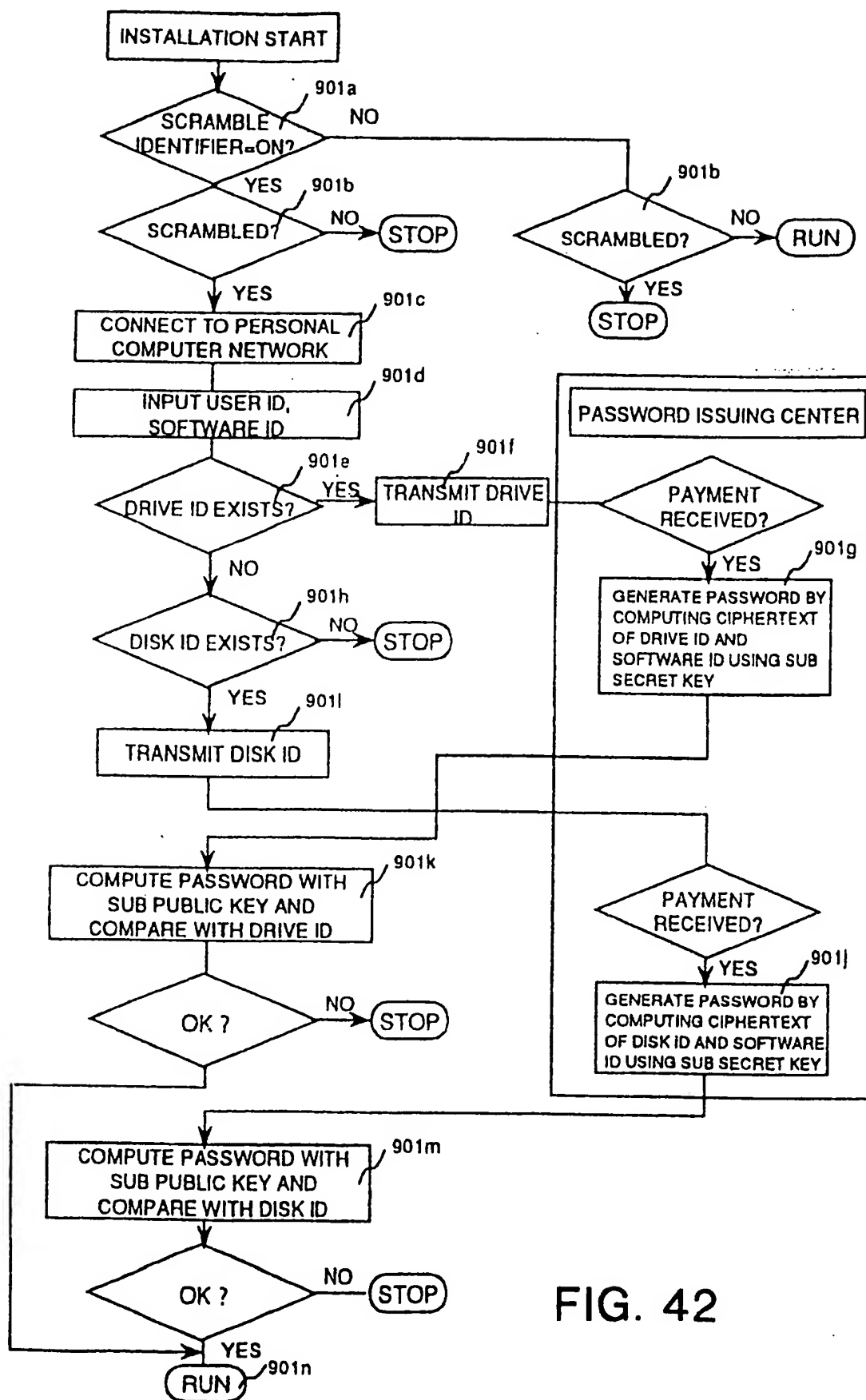


FIG. 42